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Climatological Data for February, 1910.
DISTRICT No. 1, NORTH ATLANTIC STATES.

WILFORD M. WILSON, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

The weather conditions for the month of February, 1910, were not unusual. Several storms of considerable severity occurred, particularly during the second decade, and changes in temperature were sudden and frequent, but, as a whole, the weather of the month was such as usually occurs during this season of the year. The snowfall was heavy, especially in New England, New York, and parts of Pennsylvania, and remained on the ground until near the close of the month. The high water that resulted from the melting of this large accumulation of snow during the closing days of the month was, perhaps, the most notable event.

TEMPERATURE.

The average temperature for the district was about 29°, which is nearly normal, and ranged from 34° in Virginia to 22° in New York. As a rule the average was slightly above the normal along the coast from Virginia to Maine and slightly below normal over most of the interior. The highest temperatures occurred generally on the 27th and 28th, and ranged from 74° in Maryland to 59° in New York, while the lowest occurred in various parts of the district on the 7th, 11th, 19th, and 25th, and ranged from 0° in Maryland to −31° in Vermont.

Moderate temperatures prevailed generally from the 1st to the 5th, after which a sudden change to colder occurred, which was especially pronounced over the northern sections. By the morning of the 6th temperatures of from −4° to −10° were general over New England and New York, while temperatures of 0° or below were reported as far south as Pennsylvania and New Jersey. The weather continued cold throughout the 7th with some stations in the mountain districts of New York reporting temperatures as low as −22° on that date.

Under the influence of southerly winds, resulting from the movement of a storm of considerable energy down the St. Lawrence Valley, a very rapid rise in temperature occurred during the 8th and 9th. This storm was followed by a cold wave of moderate intensity, which was, however, accompanied by a remarkable fall in temperature in the more elevated parts of New England, New York, and Pennsylvania. At Cooperstown, N. Y., the temperature fell from 36° on the 10th to −5° on the 11th; at Indian Lake, N. Y., from 38° to −29°; and at Clearfield, Pa., from 39° to −2°, while many other points reported a fall in temperature of 30° or more on these dates.

The reaction from this cold period was rapid and began over the southern part of the district on the 12th, when a storm of great intensity passed up the Atlantic coast, reaching New England on the 13th. Slightly cooler weather followed, but on the 14th a decidedly warm period set in, culminating on the 16th and 17th in remarkably high seasonal temperatures, especially along the Atlantic seaboard, where temperatures ranging from 60° to 70° were generally reported.

The 18th, 19th, and 20th were cold days with minimum temperatures, except along the coast, generally from 0° to −10° as far south as Pennsylvania and New Jersey.

The most pronounced cold period of the month, particularly in the northern part of the district, occurred from the 24th to the 26th, during which the minimum temperatures over the interior of New England, New York, and the northern part of Pennsylvania were continuously below zero. Bloomfield, Vt., reported −31°, Indian Lake, N. Y., −28°, and Lawrenceville, Pa., −22° on the 25th. The rise of temperature that followed this cold period was remarkably rapid and general and resulted in the highest temperatures of the month in most parts of the district on the 27th and 28th.

PRECIPITATION.

The average precipitation for the district was 3.14 inches, which is about 0.58 inch below the February normal. The distribution was quite uneven, the average amounts ranging from 4.31 inches in New York to 2.24 inches in Delaware and Maryland. As a rule the precipitation was greatest over the northern and least over the southern parts of the district. Most of the precipitation was in the form of snow and the fall was unusually heavy in New England and New York. The ground was generally well covered with snow, except in the southern part of the district, until the warm period of the 27th and 28th.

The month opened with fair and pleasant weather which continued until the morning of the 3d, when the movement of the storm eastward along the northern boundary of Pennsylvania to the Atlantic coast resulted in general rains over the southern and snow in the northern sections of the district. The snowfall from this storm was heavy, particularly in the central and northern parts of New England and over the northern part of New York, where it ranged in depth from 6 to 14 inches. Light precipitation occurred over the northern part of the district during the 4th and 5th, but elsewhere fair weather prevailed generally until the 9th. The first part of the second decade was unusually stormy, two storms of considerable energy passing over the North Atlantic States from the 9th to the 13th. The first moved eastward over northern New York and New England during the 9th and 10th while the second swept up the coast 2 days later. The first of these storms caused general precipitation, but only moderate amounts; but the second, having its origin in the region of the Gulf and moving up the coast, where the supply of moisture is unlimited, resulted in general and heavy, though not excessive precipitation, throughout its course. The precipitation from this storm was mostly in the form of snow and ranged from 3 to 6 inches in Virginia to from 8 to 20 inches in parts of Pennsylvania and New York. From the 13th to the 16th the weather was generally cloudy and threatening with light and scattered precipitation mostly in the form of snow.

The heaviest snowfall of the month occurred over the interior of New England and New York on the 16th and 17th, with the storm that passed eastward along the Canadian border. The snowfall from this storm ranged from 6 to 12 inches on the New England coast to 20 inches or over in the interior. Heavy sleet occurred at this time in central and southern New York, causing some interference with wire communication but no serious damage. In the southern part of the district the precipitation was generally light and in the form of rain or sleet.

General precipitation in moderate amounts occurred during the 21st, 22d, and 23d followed by fair weather that continued until the 27th, when a period of unsettled weather accompanied with warm rains in all parts of the district set in. During the closing days of the month much of the large accumulation of snow on the ground was melted, and the water from the melting snow and the rains that occurred at this time caused a general rise, particularly about the headwaters of the principal rivers, that later resulted in damaging overflows in many localities.

RIVER CONDITIONS.

The rivers and streams remained practically stationary and at a moderately low stage until near the close of the month when the rapid melting of the snow on the ground and the accompanying rains caused freshets in the smaller tributaries. In most instances the damage that resulted was due directly to the formation of ice gorges. This was particularly the case at Herkimer and Little Falls, N. Y., on the Mohawk River, where

the water reached the flood stage on the 28th. While there there was a general rise in all the principal rivers in the district at this time, dangerous stages were not attained until after the close of the month.

Binghamton, N. Y.—A flood warning was issued on Friday, February 25, the rivers at that time being low. A special edition of the weather map was printed and sent to the postmasters at Great Bend, Susquehanna, Lanesboro, Pa., and Bainbridge, N. Y., with instructions to distribute them to persons interested in the river situation. Conditions were expected to be the severest at those places on account of gorges then in the river. In this warning it was stated that the rivers would probably begin to rise Monday, February 28, and would rise rapidly to bank-full stages, but that very high water was not anticipated, except possibly in the vicinity of gorges.

On Saturday, February 26, the warning was repeated.

The rivers began to rise, as forecast, Monday morning and the following warning, based on the weather conditions at that time, was issued by telephone, telegraph, mail, and published in the daily papers. "The rivers will continue to rise and will reach higher stages than have been reached for several years past." This was followed by more detailed information as the flood progressed.

Bank-full stages were exceeded in parts of the district Monday night, but the crest of the flood did not pass Binghamton until 3 p. m., on Wednesday, March 2, when the Chenango gage read 21.5 feet, or 1.6 foot below the big flood of March 2, 1902, and the Susquehanna gage read 17.7 feet, or 2.2 feet below the flood of 1902.

The damage was mostly confined to below Norwich, N. Y., on the Chenango River and below Sidney, N. Y., on the Susquehanna River, up to and including Binghamton. Fifteen or twenty factories were flooded, houses were under water, wires prostrated, railroads covered, and the like. Three bridges were lost, having an actual value of $28,500, but which it will cost about $70,000 to replace. The estimated damage for the district is about $100,000, and it is believed that fully $50,000 were saved by the information and warnings from this Bureau.—*J. R. Weeks, Local Forecaster.*

Albany, N. Y.—Flood warnings were issued for Albany and vicinity at 8 a. m., February 28, 1910, and forecast was made that the river would pass above the flood stage (12 feet) during the afternoon of February 28 and would continue high for several days. On the morning of March 1 a forecast was made that the water would approach the 19-foot stage at Albany within the next 24 hours.

The warnings and the forecasts were given to the public through the telephone, the weather maps, the newspapers, and the newspaper bulletin boards.

The warning was amply justified, as the river rose steadily for 3 days and continued above the flood stage from late in the afternoon of February 28 till the night of March 8, except that it fell slightly below the flood stage during a portion of March 7.

Ice gorges formed below this city and on March 2 backed the water up to 18.3 feet at 5 a. m. in Albany and to 21.5 feet at 5 p. m., at Troy, this being 6.3 feet above the flood stage at Albany and 7.5 feet above at Troy.

The warning was so generally heeded that there was very little loss in this vicinity that could have been avoided.

The money value of property destroyed and damaged by the flood in the Hudson and Mohawk valleys will probably reach about a quarter of a million dollars.

There was no damage to crops, and there was little loss through erosion, the ground being frozen.

The money value of property saved by the flood warning was probably about $75,000.

The loss occasioned by enforced suspension of business through the flood was large, owing to the fact that the water was so high that it stopped all freight traffic; passenger service was seriously delayed and numerous electric lines unable to operate. Numerous factories from Utica to below Albany were closed and thousands were thrown out of employment.

The water filled the basement in the Federal Building.

An accurate estimate of the loss occasioned by this flood is not possible at the present time.—*George T. Todd, Local Forecaster.*

MISCELLANEOUS.

The average number of days on which .01 inch or more of precipitation occurred for the district was 9; clear days, 11; partly cloudy, 8, and cloudy days, 9.

The average amount of sunshine was somewhat greater than during the preceding month, the average for the district being 160 hours, which is about 53 per cent of the possible for the month of February. The total amount for the month was greatest, 193 hours, at Washington, D. C., and the least, 118 hours, at Eastport, Me.

There were 8 days during the month when the sunshine averaged 80 per cent or more of the possible, 12 days with an average between 20 and 80 per cent, and 8 days with an average of less than 20 per cent.

SNOWFALL OF THE WINTER, 1909-10, IN NEW YORK.

GEORGE W. MINDLING, Assistant Observer.

The snowfall of the current winter in New York has been unusually heavy, the total amount for the 4 months, November to February, inclusive, varying from about 2 feet in Long Island to more than 20 feet near the east end of Lake Ontario. The amount of the snowfall in various parts of the State is shown by Table 1.

TABLE 1.—*Snowfall, in inches, for selected stations in New York, 1909-10.*

Stations.	Year.‡	Nov.	Dec.	Jan.	Feb.	Total for 4 months.	Ten-year average.	Greatest daily snowfall.			
								Nov.	Dec.	Jan.	Feb.
St. Lawrence and Champlain valleys:											
Canton	1900	7.7	6.8	14.4†	17.1	46	.....	5	1	7	4
Chazy	.....	4.0	5.0	9.0	22.0	40	.....	4	2	4	10
Moira	.....	5.0	10.0	21.0	37.5	74	.....	5	2	8	9
Ontario and Adirondack region:											
Adams Center	1899	8.5	94.0*	65.5†	85.0	253	157	4	14	6	14
Blue Mountain Lake	.....	6.0	33.0	25.0	44.0	108	.....	3	12	6	12
Lake Placid Club	.....	10.0	33.6	36.2	50.5	130	.....	5	8	6	11
Morehouseville	.....	6.0	29.5	25.0	50.0	110	.....	3	4	6	12
Nehasane	.....	12.8	66.0	39.0	57.8	176	.....	7	12	10	13
Oswego	1899	6.6	42.1*	27.1†	39.6*	115	74	4	13	6	16
Palermo	.....	4.0	62.3	57.4	56.9	181	.....	4	24	30	24
Western New York:											
Addison	1893	4.5*	5.5	25.0*	30.0*	65	36	4	3	8	12
Auburn	.....	5.0	23.0	30.0	32.0	90	.....	3	6	9	14
Avon	1899	T.	10.5	18.5†	26.0*	55	36	T.	4	5	3
Binghamton	1899	3.2	6.9	30.6*	17.1	58	43	2	4	12	8
Brockport	1899	2.0	9.5	18.5	38.0*	68	.....	2	2	7	10
Buffalo	1901	4.6	25.9*	42.6*	43.7*	117	.....	.....	.....	.....	.....
Franklinville	1897	3.4	16.2	26.6	26.8†	73	64	2	2	8	8
Ithaca	1887	4.2	10.3	22.8†	21.2	58	48	4	4	6	9
East-central New York:											
Albany	1899	0.4	15.5†	14.0†	25.1*	52	37	.....	.....	.....	.....
Bouckville	1897	7.0	17.5	29.0*	25.5	79	82	5	4	6	6
Cooperstown	1897	3.0	14.0	33.5*	41.0*	92	58	.....	8	8	13
Glens Falls	1897	3.0	16.3	25.5	34.5†	79	56	2	10	6	10
Gloversville	1897	7.5	23.5	31.5	53.0*	116	78	4	10	6	14
Southeastern New York:											
Carmel	.....	2.0	13.0	17.0	15.0	47	40	2	12	6	7
Mohonk Lake	.....	3.2	11.0	18.0	25.0	57	.....	2	6	10	9
New York	1899	1.0*	11.4†	16.6†	5.3	34	26	1	9	13	5
Setauket	1897	T.	4.5	14.0†	3.0	22	23	T.	2	10	3

* Greatest amount for the month in the records available for comparison.
† Exceeded but once in the records used for comparison.
‡ Year in which records available for comparison begin.

A 10-year average for the 4 months above named has been computed for 15 selected, representative stations, and, from the values obtained, it appears that the total snowfall of the 4 months ranged from 20 to 60 per cent. above the normal, except in Long Island, where the amount was nearly equal to the 10-year average. As compared with a true normal, the

excess in snowfall was undoubtedly greater than has been stated, owing to the fact that the period used in computing means probably gives too high an average, for it includes the remarkably heavy snowfall of the present winter as well as that of 6 years ago. In the case of a few stations, whose records are such as to make possible the necessary computations, it was found that the 10-year averages were 10 per cent, or more, in excess of the averages for the last 20 years.

In the case of 17 stations, selected with due regard to the length and completeness of their records, the monthly amounts of snowfall for this winter have been compared with previous records for periods of 10 years or more. It is found that 12 of these stations show an amount, for one or more of the months of the current winter, in excess of the preceding records, while each of the others has amounts that have been exceeded but once in the period indicated in Table 1.

It is worthy of note that in the western portion of the State the snowfall was in excess of that of previous years to a greater extent than elsewhere. At Buffalo the amounts for December and January were greater than for the same months since 1901, and that for February, at Rochester as well as at Buffalo, is said to exceed all previous records, which cover the greater part of a century. An inquiry addressed to selected cooperative observers about the middle of February brought forth, at the end of the month, many interesting statements, from which the following have been selected as representative of western and central New York:

Addison.—The average snowfall for 20 years is 11.0 inches. The amount for 1910 was 25.0, and the maximum previous to this year, 22.5 inches. For February, the average for 20 years is 8.2, the maximum previous to this year 20.0, while the amount this year is 30.0 inches.—*H. R. Ainsworth.*

Cooperstown.—This has been a winter of unusual snowfall. The total for three months, December, January, and February, is 88.5 inches, while the sum of their averages for the last nine years is only 46.5 inches. The greatest amount for February since 1900 was 26.0 inches, until this year, when the amount was 41.0 inches.—*G. Pomeroy Keese.*

Brockport.—The snowfall for February was greater than for any other month in the last ten years.—*W. H. Lennon.*

TABLE 2.—*Frequency of snowfall in New York, 1909–10.*

Stations.	No. of days with a trace or more.				No. of days with 1 inch or more.			
	Nov.	Dec.	Jan.	Feb.	Nov.	Dec.	Jan.	Feb.
St. Lawrence and Champlain Valleys:								
Canton	8	26	21	19	2	2	4	6
Moira	7	14	14	13	1	5	7	9
Ontario and Adirondack region:								
Adams Center	6	26	27	27	4	20	21	23
Lake Placid Club	4	23	15	16	4	11	11	8
Morehouseville	4	15	11	15	3	15	9	13
Oswego	....	24	22	21	....	7	10	8
Western New York:								
Addison	4	13	14	15	1	2	9	7
Binghamton	7	17	17	11	1	2	6	4
Franklinville	5	25	28	16	2	10	9	8
Ithaca	6	20	18	17	1	3	7	3
East-central New York:								
Bouckville	2	10	14	9	2	7	11	8
Cooperstown	1	4	11	6	1	4	10	6
Glens Falls	4	7	12	9	1	4	9	9
Southeastern New York:								
Carmel	2	2	5	3	1	2	5	3
New York	4	6	10	6	1	3	3	1
Setauket	2	5	6	6	0	2	2	1

Snow occurred with greatest frequency over an area embracing the Adirondack region and extending westward into the counties near the east end of Lake Ontario. In this section the number of days in the 4 months on which 1 inch or more of snow fell ranged from 31 at Gloversville and 30 at Auburn to 34 at Lake Placid Club and 68 at Adams Center. In other parts of the State the number ranged from about 30 down to 10, but it was only 7 at New York City and 5 at Setauket, on Long Island. In December snowfalls of 1 inch or more occurred on 11 days at Auburn and on 8 days at Gloversville, but much oftener throughout the Adirondack region and near the southeast shore of Lake Ontario, and less frequently farther south. Snow of similar amounts occurred with equal or greater frequency in January and February. The number of days with a trace or more, for the 4 months, was found to vary from 12 at Carmel to 86 at Adams Center. The average number for each of the 3 months, December, January, and February, was probably not far from 15, if we exclude that part of the State lying farther south than Binghamton. In Table 2 the frequency of snowfall for each of the 4 months is clearly set forth, the stations having been selected with a view to representing the conditions in different parts of the State as accurately as possible.

Heavy snowstorms occurred in each of the 4 months, as will be seen from the greatest daily amounts in Table 1. The greater part of the November snow fell with the storm of the 24th and 25th, which was an unusually heavy one for that month. In December there were 2 heavy snowstorms, the first occurring on the 13th and 14th and the second on the 25th and 26th. The latter was exceptionally severe over the southeastern portion of the State, where the amount of snowfall ranged from about 4 inches on Long Island to 18 inches or more near the Catskills. In January there were 3 snowstorms worthy of special mention, the first occurring on the 6th and 7th, the second on the 14th and 15th, and the third about the 29th. During the first of these 36.3 inches of snow fell at Palermo, Oswego County.

The heaviest snowstorm of recent years, for the State as a whole, occurred generally on the 12th of February, beginning in many localities on the 11th and continuing until the 13th. The snowfall from this storm averaged above 12 inches over probably two-thirds of the State. The amount was least near the St. Lawrence River and on Long Island, where the average was about 3 inches, and greatest near the central part of Oswego County, where more than 30 inches was recorded. Between the Atlantic coast and a line passing through Binghamton and Albany, the amount averaged fully 8 inches, or a little less than the snowfall of the Christmas storm of 1909, which, however, was comparatively light in the remainder of the State.

The temperature conditions of the winter were favorable to an unusually prolonged duration of the snow cover; December was decidedly cold; January brought little thawing, though its mean temperature was somewhat above the normal; and February was below the average in temperature. In the northern part of the State, the amount of snow on the ground gradually increased until about the middle of February, when warm weather caused considerable thawing. A maximum depth for the winter of 40 inches was attained at Lake Placid Club, 44 inches at Adams Center, 50 at Nehasane, and 54 inches at Blue Mountain Lake. Except at Lake Placid Club, the least depth of snow at these stations during the month of February was 2 feet or more. Mr. A. E. Cooley, the cooperative observer at Adams Center, makes the statement that the average depth of snow (for the 3 months) was the greatest since 1879. Over an extensive area in the northern part of the State, the snow formed an obstruction to traffic and transportation such as is seldom known; but in other sections the depth remained moderate and the excellent sleighing conditions that prevailed for many weeks have been a source of great convenience and a subject of frequent discussion and general comment.

TABLE 1—*Climatological data for February, 1910. District No. 1, North Atlantic States.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Maine.																				
Bar Harbor	Hancock	20	24	24.0	+ 1.4	50	28	− 6	25	36	5.40	+ 1.11	1.30	27.5	11	12	7	9	nw.	Wm. Miller.
Cornish	York	778	55	22.2	+ 0.8	54	28	−25	25	56	5.19	+ 1.57	0.80	36.0	12	9	8	11	w.	T. H. West.
Eastport	Washington	53	38	22.6	+ 1.2	44	21	− 2	8	31	4.52	+ 0.90	0.73	28.5	16	7	6	15	w.	U. S. Weather Bureau.
Fairfield	Somerset	90	25																	Edward F. Parker.
Farmington	Franklin	450	13	19.6	+ 2.1	48	28	−21	25	51	2.97	− 1.17	0.70	27.5	9	9	10	9	nw.	State Normal School.
Gardiner	Kennebec	163	18	20.5	+ 0.6	47	9	−19	25	46	4.30	+ 0.14	0.90	30.0	11	14	4	10	nw.	Samuel D. Soule.
Greenville	Piscataquis	1,000	6	14.2		40	21†	−24	25	40	3.51		0.90	29.2	14					U. S. Weather Bureau.
Houlton	Aroostook	362	8	16.2		40	28	−22	26	46	2.00		0.60	28.0	5	18	2	8	ne.	Bangor & Aroostook R. R.
Lewiston	Androscoggin	185	36	20.1	+ 0.2	47	27	−13	26	45	4.24	− 0.07	0.81	33.0	11	10	8	10	nw.	Union Water Power Co.
Madison	Somerset	257	7	13.6		46	28	−26	25	53	2.69		0.58	29.0	13	15	2	11	nw.	Wm. Jardine.
Millinocket	Penobscot	386	7	17.0		45	27	−20	25	47	3.56		0.93	29.8	13	8	5	15	nw.	H. S. Ferguson.
North Bridgton	Cumberland	450	17	21.5	+ 2.1	50	21	−11	25†	44	4.48	− 0.50	1.10	37.0	8	6	15	7	nw.	G. E. Chadbourne.
Orono	Penobscot	129	41	19.2	0.0	45	28	−23	25	48	3.42	− 0.51	0.70	23.5	10	9	6	13	sw.	Agricultural Exp. Station.
Patten	do	550	8	12.2		42	21	−23	25	45	3.34		1.20	27.5	9	10	7	8	w.	Bangor & Aroostook R. R.
Portland	Cumberland	99	39	23.2	− 0.6	49	21	− 3	7	30	4.84	+ 1.19	1.52	37.5	12	9	9	10	n.	U. S. Weather Bureau.
Presque Isle	Aroostook																			San Lorenso Merriman.
Rumford Falls	Oxford	505	17	18.5	+ 0.3	46	27	−12	26	41	2.68	− 2.03	0.71	28.5	13	13	7	8	nw.	Chas. A. Mixer.
Winslow	Kennebec	90	15	18.0	− 0.7	49	8	−18	25†	47	2.41		0.60	22.0	8	13	7	8	w.	Hollingsw'th & Whitney Co.
New Hampshire.																				
Alstead Center	Cheshire	1,120	6	19.0		48	28	−15	7	34	3.81		0.70	44.5	11	9	5	14	nw.	Frank Dewing.
Benton	Grafton			17.2		45	16†	−16	7	41	2.95		0.95		5	14	8	6	nw.	P. C. Bartlett.
Bethlehem	do	1,470	18	16.4	− 1.0	47	16	−22	7	40	2.90	+ 0.01	0.70	19.5	13	12	6	10	nw.	Benjamin Tucker.
Concord	Merrimack	350	50	21.7	− 1.9	56	28	−14	25	44	4.77	+ 1.49	1.16	28.3	10	11	5	12	nw.	U. S. Weather Bureau.
Durham	Stafford	88	15	22.4	− 2.3	55	28	−12	25	37	2.94	− 1.08	0.81	48.5	5	16	4	8	nw.	Agricultural Exp. Station.
Franklin	Merrimack	440	11	21.4		52	28	−15	25	49	4.60		1.09	39.0	11	15	5	8	nw.	Dr. C. P. Webster.
Grafton	Grafton	863	24	18.8	+ 0.6	57	21	−22	25†	52	4.35	+ 0.02	1.20	33.0	11	11	8	9	nw.	Perley R. Kimball.
Hanover	do	603	76	17.9	− 1.2	52	16	−18	25	47	3.55	+ 1.15	0.79	41.5	13	10	7	11	nw.	Dartmouth College.
Keene	Cheshire	506	25	20.9	− 1.7	53	16†	−19	25	48	4.03	+ 0.71	0.79	33.0	10	14	7	7	nw.	Samuel Wadsworth.
Nashua	Hillsboro	125	25	23.4	− 0.6	54	16†	−13	25†	46	6.12	+ 1.91	1.60	31.5	11	14	5	9	nw.	Jackson Company.
Newton	Rockingham		22	23.2	− 1.1	54	21	−14	25	41	4.69	+ 1.09	1.38	31.5	8	12	10	6	nw.	W. C. Gale.
Plymouth	Grafton	500	22	19.0	+ 1.1	50	16	−21	25	51	3.77	+ 0.14	0.79	36.2	12	15	0	13	w.	Hattie G. Trow.
Vermont.																				
Bloomfield	Essex		3	15.2		48	28	−21	25	52	2.73		0.62	24.0	13	12	12	4	s.	P. S. Tirrill.
Cavendish	Windsor	910	7	18.9		50	16	−16	7	42	3.20		0.66	23.5	8	18	2	7		Miss M. A. Kingsbury.
Chelsea	Orange	830	15	15.4	− 3.4	52	16	−25	25	46	3.81	+ 0.33	0.75	36.0	12	13	1	14	n.	W. F. Dewey.
Jacksonville	Windham	1,000	25	15.0	− 4.7	42	28	−26	24	46	2.65	− 2.26	1.00	80.0	14	15	2	11	nw.	Miss Martha French.
Manchester	Bennington	980	11	18.2		49	28	−21	7	35	2.99		0.81	17.5	7	6	13	9	sw.	N. M. Canfield.
St. Johnsbury	Caledonia	711	17	17.2	0.0	47	16	−23	7	63	4.55	+ 1.92	0.90	32.3	15	10	8	10	nw.	Fairbanks Museum.
Woodstock	Windsor	700	18	17.1	− 0.3	50	27	−22	25†	49	4.86	+ 1.64	1.38	38.0	9	10	1	17		John S. Eaton.
Massachusetts.																				
Amherst	Hampshire	222	21	23.6	− 1.3	54	21	− 7	26	41	5.08	+ 1.80	0.94	18.5	13	15	7	6	nw.	Agricultural Exp. Station.
Blue Hill	Norfolk	640	26	25.8	+ 0.2	55	16	− 8	7	32	4.03	− 0.17	1.18	18.2	9	9	7	12	w.	Blue Hill Observatory.
Boston	Suffolk	124	40	29.4	+ 1.4	60	16	− 3	6†	31	3.44	0.00	1.22	12.6	11	11	5	12	w.	U. S. Weather Bureau.
Chestnut Hill	do	124	30	28.5	+ 1.2	59	16†	− 5	7	43	5.69	+ 1.62	1.55	14.2	10	20	7	1		Metropolitan Water Board.
Clinton	Worcester	370	14	23.4		53	27	− 8	6†	42	4.57		0.89	23.0	9	17	1	10		Do.
Concord	Middlesex	139	20	24.6	+ 0.3	56	16	− 8	26	39	4.16	+ 0.64	1.11	21.9	9	8	9	11	nw.	Fred. A. Tower.
Fall River	Bristol	200	44	28.9	+ 0.3	54	16	− 3	7	24	4.55	− 0.10	1.40	5.0	11	6	17	5	nw.	C. V. S. Remington.
Fitchburg	Worcester	550	27	24.5	+ 0.4	53	16†	− 8	7	36	4.16	+ 0.04	1.05	26.0	10	14	4	10	nw.	Dr. A. P. Mason.
Framingham	Middlesex	160	30	27.2	+ 0.5	56	16†	− 7	7	37	5.10	+ 0.76	1.64	18.0	8					Metropolitan Water Board.
Hyannis	Barnstable	31	19	29.6	− 0.7	47	16†	0	7	20	4.23	+ 0.46	2.04	5.5	8	12	10	6	nw.	C. F. Sleeper.
Lawrence	Essex	51	26	24.2	− 0.4	55	16†	− 8	7†	40	4.56	+ 0.56	1.26	23.5	9	11	12	5	nw.	Essex Company.
Lowell	Middlesex	100	25	26.1	+ 1.0	54	27	− 8	26	43	5.87	+ 2.20	1.40		9					Prop's Locks and Canals.
Middleboro	Plymouth	53	24	29.5	+ 1.7	56	16†	− 4	7	33	4.38	+ 0.01	1.23	3.9	8	5	14	9	sw.	A. R. Gurney.
Monson	Hampden	420	26	25.4	+ 1.2	56	28	− 7	7	34	4.66	+ 0.34	1.00	23.0	11	15	5	8	nw.	Dr. G. E. Fuller.
Nantucket	Nantucket	15	24	32.1	− 0.5	51	12	3	7	26	3.41	+ 0.30	1.83	3.3	11	8	9	11	w.	U. S. Weather Bureau.
New Bedford	Bristol	88	98																	City Engineer.
Norfolk	Norfolk	244	7	28.8		60	27	− 5	7	39	2.62		1.11	15.7	6	8	7	13	nw.	Miss Ruby H. Martyn.
Northampton	Hampshire	205	2	23.2		55	16	− 8	25	50	4.18		1.23	26.0	8	15	5	8	nw.	D. E. Hoxie.
Plymouth	Plymouth		25	28.0		58	22	− 3	7	35	5.07		1.29	7.5	8	15	3	10	sw.	Laura B. Knapp.
Provincetown	Barnstable	40	23	31.2	+ 2.0	52	21	2	7	24	3.43	+ 0.27	1.09	1.0	8	17	0	11	w.	Gideon Bowley.
Rockport	Essex	25	8	29.2		55	16	0	7	29	5.25		1.50	6.0	7	12	9	7	nw.	C. F. B. Bearse.
Rutland	Worcester	1,160	8	22.0		50	16†	−11	6	31	5.66		1.39	28.1	9	17	4	7	sw.	State Sanatorium.
South Egremont	Berkshire	764	8	19.9		50	27	−15	7	42	4.16		0.80	22.0	11				nw.	Roscoe C. Taft.
Turners Falls	Franklin	200	19	22.8	+ 0.1	50	16	−10	25	40	4.83	+ 2.40	1.68	30.2	8					Turners Falls Co.
Westboro	Worcester	298	36	27.4	+ 0.8	56	16†	− 7	7	36	3.10	− 1.23	1.00	20.2	5					G. S. Newcomb.
Williamstown	Berkshire	711	29	21.0	− 1.1	50	28	−13	7	38	3.14	+ 0.58	0.77	29.5	11	7	12	19	w.	Williams College.
Worcester	Worcester	518	18	26.6	+ 1.6	55	16†	− 6	7	32	3.76	− 0.74	0.91	24.0	10	11	8	9	sw.	G. W. Swan.
Rhode Island.																				
Block Island	Newport	26	30	30.9	− 0.3	52	18	− 1	7	33	4.22	− 0.07	1.38	1.0	10	8	9	11	nw.	U. S. Weather Bureau.
Bristol	Bristol	53	24	29.1	− 0.6	48	21	− 2	7	22	5.07	+ 1.13	1.37	5.0	11	14	6	8	w.	N. G. Herreshoff.
Kingston	Washington	250	21	28.2	+ 0.3	57	21	− 7	7	28	5.13	− 0.17	1.45	5.0	9	12	7	9	nw.	Nathaniel Helme.
Narragansett Pier	Newport	22	28	30.8	+ 1.8	55	21	− 4	7	31	4.41	− 0.16	10.9	2.0	10	16	5	7	nw.	U. S. Weather Bureau.
Providence	Providence	182	6	28.6	− 0.4	60	16	− 4	7	33	3.86	+ 0.42	1.22	10.6	11	9	11	8	nw.	Do.
Connecticut.																				
Bridgeport	Fairfield	20	17	29.8		54	21	− 3	7	28	3.83		0.90	6.2	10	11	10	7	nw.	William Jennings.
Canton	Hartford	900	49	23.2	− 0.4	52	16	− 9	7	37	5.11	+ 1.11	1.13	17.0	7	12	7	9	nw.	G. J. Case.
Colchester	New London	370	24	26.3	− 1.3	56	16†	−10	7	38	3.39	− 0.92	0.75	8.0	7	13	7	8	w.	S. P. Willard.
Cream Hill	Litchfield	1,300	14	22.7	+ 0.2	49	28	−13	7	29	5.20	+ 2.05	1.00	26.5	12	11	7	10	sw.	C. L. Gold.
Danielson	Windham	300	8	25.0		47	28	− 6	7	32	3.07		0.75	14.0	7	13	8	7	n.	F. E. Bitgood.
Hartford	Hartford	159	6	27.2	0.0	57	16	− 6	7	30	4.43	+ 0.88	1.11	12.2	11	8	10	10	nw.	U. S. Weather Bureau.
Hawleyville	Fairfield	600	12	27.0	+ 1.3	52	28	− 6	7	36	3.98	+ 0.61	0.95	17.0	7	13	4	11	w.	Edson N. Hawley.
New Haven	New Haven	107	123	29.2	+ 0.9	55	21	− 4	7	26	4.37	+ 0.62	1.46	6.2	10	10	10	8	nw.	U. S. Weather Bureau.
New London	New London	47	40	30.2	+ 1.1	52	27	− 4	7	32	3.69	− 0.36	1.37	3.5	5	12	10	6	nw.	Thos. C. Dillon.
North Grosvenordale	Windham	400	20	24.8	− 0.7	58	16	− 7	6	44	3.67	− 0.93	1.30		7	15	4	9	sw.	Grosvenor Dale Co.
Norwalk	Fairfield	116	20	28.0	+ 1.0	56	28	− 4	7	32	3.46	− 0.68	0.99	6.0	10	13	8	7	nw.	Geo. C. Comstock.
Southington	Hartford	140	41	27.2	+ 1.0	54	16	− 6	7	35	3.80	− 0.37	1.20	12.0	7	7	16	5	n.	Luman Andrews.
Storrs	Tolland	640	22																	Agricultural Exp. Station.
Torrington	Litchfield	625	9	22.6		55	17†	− 9	7	39	3.94		0.81	15.0	8	13	3	12	s.	Edwin H. Forbes. Ph. D.
Voluntown	New London	260	25	27.6	− 0.7	58	21	− 7	7	36	3.02	− 1.95	0.85	2.0	8	6	5	17	nw.	Rev. E. Dewhurst.
Waterbury	New Haven	400	35	28.2	+ 1.5	56	16	− 6	7	34	4.27	− 0.39	1.25	12.5	7					N. J. Welton.
New York.																				
Addison	Steuben	1,000	20	23.5	− 0.4	49	2†	−18	25	45	3.66	+ 1.41	0.98	30.0	12	14	2	12	nw.	H. R. Ainsworth.
Albany	Albany	97	89	21.6	− 2.0	48	28	−10	7	41	3.29	+ 0.77	0.92	25.1	15	11	7	10	s.	U. S. Weather Bureau.
Alfred	Allegany		0																	Prof. O. S. Morgan.
Amsterdam	Montgomery	277	6	18.6		49	27	−16	7	38	5.40		1.45	36.0	8	21	0	7	w.	Emery Elwood.
Athens	Greene	90	8	22.7		52	21	− 9	7†	43	4.37		1.45	25.5	9	9	11	8	ne.	E. C. Brooks.
Ballston Lake	Saratoga	400	6	16.4		43	21†	−24	25	46	5.24		1.46	31.2	12	11	7	10	w.	Geo. R. Schauber.

TABLE 1—*Climatological data for February, 1910. District No. 1*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
New York—Cont'd.																				
Bedford	Westchester	450	19	28.4	+ 3.0	55	28	− 5	7	34	3.15	− 0.93	0.75	8.5	8	16	5	7	.....	Dr. L. Rosenberg.
Binghamton	Broome	875	19	22.6	− 2.1	54	28	− 8	25	35	2.57	+ 0.67	0.88	17.1	14	7	5	16	w.	U. S. Weather Bureau.
Bouckville	Madison	1,350	13	18.8	+ 0.7	45	28	−20	7	31	4.30	+ 1.35	0.79	25.5	12	5	8	15	nw.	L. W. Griswold.
Boyds Corners	Putnam	560	28	.....	.....	.....	.....	.....	.....	.....	4.45	+ 0.14	.....	.....	.....	.....	.....	.....	.....	Thomas Manning.
Carmel	...do	500	18	22.1	− 3.5	50	16†	−10	7	36	5.03	+ 0.57	1.31	15.0	12	13	3	12	nw.	Do.
Chatham	Columbia	470	9	22.1	.....	54	28	−12	7	34	3.05	.....	0.67	22.0	11	14	5	9	n.	Morton R. Tank.
Cooperstown	Otsego	1,250	56	18.8	− 1.8	46	28	−14	7	40	6.68	+ 4.20	1.95	41.0	10	10	9	9	w.	G. Pomeroy Keese.
Corinth	Saratoga	542	8	.....	.....	.....	.....	.....	.....	.....	5.42	.....	1.86	.....	6	.....	.....	.....	.....	A. M. Hollister.
Cortland	Cortland	1,129	48	19.3	− 2.7	46	28	−12	25	40	3.36	+ 1.06	0.75	30.5	13	10	6	12	nw.	F. G. Baker.
Cutchogue	Suffolk	32	33	34.3	+ 7.1	57	16	− 2	7	34	3.39	− 0.51	0.98	3.0	8	12	12	4	nw.	Wm. A. Fleet.
De Ruyter	Madison	1,300	7	20.0	.....	45	28	−19	7	38	4.49	.....	0.76	27.5	13	6	10	12	s.	B. D. Crandall.
Easton	Washington	.....	20	.....	.....	.....	.....	.....	.....	.....	3.92	+ 1.32	0.91	34.5	12	.....	.....	.....	.....	H. Taber.
Elmira	Chemung	863	31	24.5	− 2.0	48	16†	−12	7	37	2.53	+ 0.88	1.40	.....	6	9	8	11	nw.	Gerity Bros.
Fort Hunter	Montgomery	280	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Wing.
Fort Plain	...do	316	6	20.8	.....	51	27	−11	7	39	3.76	.....	0.73	31.5	12	14	4	10	w.	Abram Devendorf.
Glens Falls	Warren	340	19	18.4	− 0.8	48	16	−17	7	44	5.06	+ 2.21	0.90	34.5	12	10	6	12	w.	Prof. C. L. Williams.
Gloversville	Fulton	850	18	17.8	− 0.4	47	28	−17	7	40	5.63	+2.43	0.93	53.0	14	13	6	9	w.	W. L. McLean.
Greenfield Center	Saratoga	314	12	18.8	− 1.0	45	16	−23	7	38	5.48	+ 2.37	1.20	34.5	8	14	6	8	sw.	S. E. Darrow.
Greenwich	Washington	425	13	20.4	+ 2.4	48	21†	−25	7	38	4.66	+ 2.13	0.65	41.5	13	10	12	6	n.	I. V. H. Gill.
Griffin Corners	Delaware	2,260	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Kelsey H. Kelly.
Haskinville	Steuben	.....	15	.....	.....	.....	.....	.....	.....	.....	3.12	+ 1.81	1.20	26.6	7	.....	.....	.....	.....	W. G. Collins.
Homer	Cortland	1,137	2	18.7	.....	46	28	−16	25	41	4.14	.....	0.75	23.8	13	13	4	11	nw.	Charles C. Mortimer.
Hoosick Falls	Rensselaer	410	.....	.....	.....	.....	.....	.....	.....	.....	3.80	.....	1.06	.....	17	.....	.....	.....	.....	Sanford L. Cluett.
Indian Lake	Hamilton	1,705	11	15.4	+ 0.3	49	28	−29	11	49	5.37	+ 2.42	1.00	.....	11	10	8	10	w.	Lester Severie.
Jeffersonville	Sullivan	1,240	7	20.5	.....	49	21	−18	25	52	3.50	.....	1.17	14.0	8	16	6	6	se.	Chas. Wilfert, jr.
Lake Pleasant	Hamilton	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Willet Larence.
Liberty	Sullivan	2,300	28	19.6	− 1.8	47	28	−14	6	39	5.20	+ 2.13	1.20	27.2	10	14	4	10	nw.	Dr. H. M. King.
Little Falls	Herkimer	924	12	19.3	− 1.0	48	28	−19	7	37	3.85	+ 1.68	0.71	41.0	10	10	10	8	w.	O. J. Dempster.
Mohonk Lake	Ulster	1,245	14	23.6	+ 0.2	52	28	−10	7	30	7.06	+ 3.54	1.50	25.0	7	15	7	8	w.	A. K. Smiley.
Morehouseville	Hamilton	1,607	2	15.3	.....	47	28	−28	11	54	5.05	.....	1.20	50.0	18	10	0	18	w.	Theodore C. Remonda.
Mount Hope	Westchester	200	13	29.2	+ 2.0	55	27	0	7	33	2.85	− 0.89	1.10	5.0	6	9	9	10	.....	Wm. A. Cornelius.
Newark Valley	Tioga	825	23	.....	.....	.....	.....	.....	.....	.....	3.39	+ 1.33	0.82	27.0	10	10	6	12	.....	M. D. Clinton.
New Berlin	Chenango	.....	3	.....	.....	.....	.....	.....	.....	.....	2.96	.....	0.67	.....	11	.....	.....	.....	.....	Roger Greene.
New Lisbon	Otsego	1,234	20	17.2	− 1.8	46	28	−20	7	48	4.19	+ 1.75	0.69	24.0	12	7	7	14	sw.	G. A. Gates.
New York	New York	314	85	31.4	+ 2.7	59	28	2	7	20	4.07	+ 0.33	1.75	5.3	9	8	10	10	w.	U. S. Weather Bureau.
North Creek	Warren	1,002	2	17.0	.....	49	16	−23	19	48	5.35	.....	1.58	33.5	6	11	8	9	w.	W. G. Kenwell.
Northville	Fulton	742	8	.....	.....	.....	.....	.....	.....	.....	6.72	.....	1.90	41.5	14	8	6	14	nw.	P. C. Pickard.
Norwich	Chenango	1,015	4	20.0[b]	.....	45[b]	27	−20[b]	7	38[b]	6.03	.....	1.28	43.4	11	7	14	7	.....	H. S. Hopkins.
Oneonta	Otsego	1,112	16	22.7	+ 0.4	52	28	−14	7	40	4.22	+ 1.46	0.86	23.0	11	15	3	10	sw.	H. W. Lee.
Oxford	Chenango	916	45	20.2	− 2.3	43	28	−26	7	44	4.78	+ 2.18	0.85	34.0	14	6	11	11	nw.	John P. Bavis.
Port Jervis	Orange	479	26	25.0	− 0.2	51	21	− 9	7	42	3.47	− 0.05	1.14	12.0	10	9	6	13	w.	Prof. John M. Dolph.
Salisbury	Herkimer	1,526	13	16.6	− 0.7	43	27†	−24	7	48	6.61	+ 4.18	1.78	31.0	12	12	9	7	w.	Joseph Ryan.
Salisbury Mills	Orange	314	11	25.4	.....	53	27†	−10	25	48	2.96	− 1.02	0.70	15.0	7	16	4	8	w.	H. P. Ramsdell.
Scarsdale	Westchester	200	6	29.6	.....	57	27	− 2	7	33	3.05	.....	1.20	11.0	5	14	6	8	nw.	C. H. Wilmarth.
Setauket	Suffolk	40	25	30.8	+ 1.3	54	21†	− 1	7	29	2.96	− 1.15	0.90	3.0	8	14	5	9	w.	Selah B. Strong.
Sherburne	Chenango	.....	3	.....	.....	.....	.....	.....	.....	.....	4.62	.....	1.12	22.5	11	10	2	16	s.	E. B. Collins.
Southampton	Suffolk	36	9	30.8	.....	51	18	− 1	7	26	3.20	.....	1.57	3.0	6	12	12	4	nw.	W. L. Jagger.
Southeast Reservoir	Putnam	310	15	.....	.....	.....	.....	.....	.....	.....	5.13	+ 1.03	.....	.....	.....	.....	.....	.....	.....	Thomas Manning.
Spier Falls	Saratoga	400	9	19.3	.....	49	16	−26	7	42	6.17	.....	1.05	32.0	11	15	4	9	sw.	W. F. Anderson.
Trenton Falls	Oneida	751	7	.....	.....	.....	.....	.....	.....	.....	5.39	.....	1.81	.....	15	10	0	18	ne	C. W. Young.
Tribeshill	Montgomery	268	7	.....	.....	.....	.....	.....	.....	.....	5.50	.....	1.40	43.0	9	14	8	6	w.	R. S. Marshall.
Utica	Oneida	537	44	.....	.....	.....	.....	.....	.....	.....	5.12	.....	1.05	.....	17	.....	.....	.....	.....	W. E. Young.
Wading River	Suffolk	112	4	30.8	.....	58	21	− 1	7	30	3.72	.....	0.82	0.3	11	16	2	10	nw.	H. B. Fullerton.
Wappingers Falls	Dutchess	110	20	23.2	0.0	52	28	−11	25	45	5.27	+ 1.29	0.92	22.0	14	11	9	8	nw.	H. C. Townsend.
Warwick	Orange	538	16	.....	.....	.....	.....	.....	.....	.....	4.05	+ 1.21	0.80	18.0	9	.....	.....	.....	.....	John W. Sly.
Waverly	Tioga	824	28	21.0	− 2.9	47	27†	−19	25	58	3.13	+ 1.18	1.00	18.3	11	5	11	12	nw.	Hon. J. F. Shoemaker.
West Berne	Albany	946	11	21.1	+ 1.8	53	28	−19	25	50	2.55	− 0.20	0.80	25.0	7	13	3	12	nw.	W. J. Haverly.
West Point	Orange	167	61	24.8	+ 3.6	56	17	− 3	7	32	3.50	+ 0.19	0.90	10.0	6	18	6	4	n.	Maj. Chas. M. Gandy.
Windham	Greene	1,520	10	.....	.....	52[m]	28	−14[m]	7	....	3.12	+ 0.65	0.80	19.8	10	9	12	7	w.	A. R. Mott.
Pennsylvania.																				
Altoona	Blair	1,181	22	26.4[d]	+ 2.6	51[d]	2†	− 3[d]	7	35[d]	2.18	− 0.18	0.67	.....	5	.....	.....	.....	.....	C. W. Billin.
Bethlehem	Northampton	260	....	29.7	.....	55	28	0	7	30	5.36	.....	1.19	8.0	8	11	4	13	w.	Prof. E. C. Roest.
Clearfield	Clearfield	1,107	2	24.2	.....	52	2	−12	19	47	4.51	.....	1.46	13.2	8	14	5	9	w.	Raymond C. Ogden.
Emporium	Cameron	1,050	23	24.2	− 0.6	49	16	−12	25	43	4.11	+ 1.13	0.85	21.8	13	8	10	10	w.	T. B. Lloyd.
Ephrata	Lancaster	384	10	28.4	+ 1.1	57	28	− 3	7	31	4.15	+ 0.78	1.30	8.3	12	9	6	13	e.	W. L. Frants.
Everett	Bedford	1,080	12	28.4	+ 3.2	55	16†	2	7	40	2.20	− 0.27	0.45	9.5	10	5	14	9	nw.	B. L. Steckman.
George School	Bucks	.....	3	33.8[c]	.....	61[c]	26[c]	0[c]	7	25[c]	2.68	.....	0.89	6.6	9	7[c]	4[c]	14[c]	nw.	Prof. A. C. Smedley.
Gettysburg	Adams	600	36	30.0	− 0.3	56	16	3	7	33	3.78	+ 1.01	0.75	10.2	12	7	7	14	s.	Col. E. B. Cope.
Gordon	Schuylkill	804	6	26.2	.....	52	28	− 4	7†	42	4.02	.....	0.86	13.0	11	13	4	11	w.	Capt. J. G. Johnson.
Hamburg	Berks	380	14	28.5	+ 0.7	52	28	− 3	7	29	4.02	+ 0.62	1.18	8.2	9	17	2	9	nw.	W. J. Kalbach.
Harrisburg	Dauphin	361	22	29.2	− 0.7	53	27	2	7	22	3.54	+ 0.84	0.84	9.9	11	9	8	11	w.	U. S. Weather Bureau.
Huntingdon	Huntingdon	650	22	27.8	− 0.1	52	27†	3	7	40	2.34	− 0.54	0.90	9.0	7	8	9	11	w.	Prof. W. J. Swigart.
Hyndman	Bedford	977	3	30.2	.....	60	27	4	7	42	2.02	.....	0.70	9.0	9	9	7	12	sw.	H. C. Mauk.
Lawrenceville	Tioga	1,006	12	23.4	+ 0.7	50	27†	−22	25	49	3.58	+ 1.64	1.00	27.0	11	12	7	9	.....	C. P. Darling.
Lebanon	Lebanon	458	23	29.6	+ 1.3	56	28	1	7	25	4.39	+ 0.75	0.88	9.5	14	10	7	11	nw.	G. W. Hayes, C. E.
Lock Haven	Clinton	560	22	26.8	− 0.1	48	2†	− 4	7	38	2.82	− 0.06	1.00	13.0	11	7	10	11	w.	Prof. J. A. Robb.
Marion	Franklin	640	6	29.7	.....	55	28	4	7	27	3.62	.....	0.84	9.0	10	10	8	10	.....	Hon. C. B. Hege.
Mauch Chunk	Carbon	634	21	26.8	+ 0.3	51	28	− 3	7	39	3.97	− 0.16	1.00	11.0	11	13	5	10	n.	F. C. Wintermute.
Mifflintown	Juniata	445	6	27.4	.....	48	28	0	7	31	3.11	.....	0.86	9.0	11	11	5	12	w.,	Wellington Smith.
Milford	Pike	455	7	23.8	.....	50	21	− 6	7†	41	3.96	.....	0.95	15.2	7	10	12	6	nw.	Mrs. Alla Doughty.
Montrose	Susquehanna	1,658	6	18.0	.....	46	28	−12	7	31	4.43	.....	1.44	30.5	10	.....	.....	.....	.....	J. R. Beebe.
Muncy Valley	Sullivan	519	....	24.6	.....	49	27	− 8	7	32	3.09	.....	0.98	10.0	6	10	0	18	.....	F. W. Buck.
New Germantown	Perry	873	6	29.2	.....	56	28	2	7	30	2.77	.....	0.85	7.0	5	.....	.....	.....	.....	Ed. C. Johnston.
Philadelphia (1)	Philadelphia	117	39	34.4	+ 1.6	64	27	5	7	27	2.99	− 0.39	1.08	4.2	10	11	8	9	nw.	U. S. Weather Bureau.
Pocono Lake	Monroe	1,662	8	22.2	.....	51	28	−10	6	36	1.41	.....	0.44	2.0	6	10	6	12	w.	Pocono Lake Ice Co.
Reading	Berks	280	37	31.0	+ 1.6	57	27	1	7	30	4.83	+ 1.19	1.29	7.3	10	.....	.....	.....	.....	Franklin Yeager.
Scranton	Lackawanna	805	10	26.2	− 0.7	52	28	− 4	7	28	3.94	+ 1.22	1.13	12.3	12	10	8	10	sw.	U. S. Weather Bureau.
Selinsgrove	Snyder	455	22	27.2	+ 1.0	46	28	− 2	7	37	2.95	− 0.11	0.93	11.0	10	12	6	10	nw.	J. M. Boyer, C. E.
State College	Center	1,191	22	25.6	+ 0.4	53	28	− 5	7	30	3.82	+ 1.04	0.78	15.3	12	.....	.....	.....	sw.	Prof. Wm. Frear.
Towanda	Bradford	754	15	23.8	+ 1.0	52	28	−10	19	36	2.68	+ 0.80	0.65	22.1	13	8	8	12	nw.	Hiram E. Bull, C. E.
Wellsboro	Tioga	1,327	33	23.0	− 1.6	48	2†	−17	25	47	3.18	+ 0.40	1.10	22.0	7	11	8	9	w.	O. L. White.
West Chester	Chester	455	56	30.2	− 0.6	59	27	− 2	7	26	3.77	− 0.43	1.36	6.5	11	11	3	14	w.	J. C. Green, D. D. S.
Wilkes-Barre	Luzerne	575	25	26.8	− 0.7	52	28	− 2	7	30	5.31	+ 1.92	1.58	5.0	9	6	7	15	.....	A. W. Betterly
Williamsport	Lycoming	530	20	27.2	+ 1.3	51	28	− 4	7	28	3.32	+ 0.85	0.93	12.7	9	13	3	12	nw.	Henry H. Guise.
New Jersey.																				
Asbury Park	Monmouth	22	22	32.3	+ 0.4	60	16	1	7	32	1.84	− 1.99	1.00	2.0	10	10	10	8	w.	B. H. Obert.
Atlantic City	Atlantic	16	37	33.3	+ 0.3	55	22	3	7	26	2.74	− 0.53	1.49	3.7	11	10	8	10	nw.	U. S. Weather Bureau.

TABLE 1—*Climatological data for February, 1910. District No. 1*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
New Jersey—Cont'd.																				
Bayonne	Hudson	50	20	30.6	+ 0.1	60	27†	2	7	27	2.88	− 0.96	0.83	4.5	10	10	6	12	nw.	J. H. Eadie.
Belvidere	Warren	289	19	27.2	− 0.2	46	16	− 2	7	37	3.45	− 0.65	1.24	7.5	7	10	8	10	.....	S. J. Hixson.
Bergen Point	Hudson	37	13	31.0	+ 0.6	61	28	1	7	27	3.24	− 1.15	0.94	7.0	10	8	10	10	nw.	Dr. W. H. Mitchell.
Boonton	Morris	413	20	.....	.....	.....	.....	.....	.....	.....	3.10	− 1.11	0.90	.....	10	.....	.....	.....	.....	F. G. McIntosh.
Bridgeton	Cumberland	30	29	33.8[b]	− 0.1	69	28	2	7	33	2.20	− 2.04	0.83	4.0	9	10	8	10	nw.	H. A. Jorden.
Burlington	Burlington	12	26	.....	.....	.....	.....	.....	.....	.....	3.00	− 0.74	1.19	4.3	9	.....	.....	.....	nw.	D. S. B. McCoy.
Canton	Salem	24	16	.....	.....	.....	.....	.....	.....	.....	1.42	− 2.56	0.45	4.0	10	10	10	8	.....	J. H. Maskell.
Cape May	Cape May	17	26	33.8	− 0.3	52	16	7	7	22	2.33	− 0.96	0.78	1.3	11	9	8	11	w.	U. S. Weather Bureau.
Charlotteburg	Passaic	719	18	27.2	+ 1.8	53	16†	− 4	7	40	4.09	− 0.39	1.05	10.5	9	10	9	9	.....	G. S. Briggs.
Chatham	Morris	234	8	.....	.....	.....	.....	.....	.....	.....	2.89	.....	0.70	7.3	11	.....	.....	.....	.....	M. A. Butler.
Clayton	Gloucester	126	17	32.4	+ 1.7	65	27†	2	7	33	1.58	− 2.32	0.78	3.0	10	10	9	9	nw.	W. T. Farley.
College Farm	Middlesex	100	15	30.0	− 0.2	61	27†	0	7	31	2.58	− 0.95	0.57	3.0	11	10	9	9	nw.	G. B. Thrasher.
Culvers Lake	Sussex	848	9	.....	.....	.....	.....	.....	.....	.....	4.07	.....	0.92	18.1	12	10	9	9	nw.	B. E. Riker.
Dover	Morris	575	26	26.2	0.0	52	28	− 2	7	29	4.81	+ 0.57	1.13	12.5	10	7	11	10	.....	W. C. Harris.
Elizabeth	Union	33	31	31.5	+ 1.1	60	28	2	7	24	2.88	− 1.38	0.75	5.0	10	10	8	10	nw.	W. M. Oliver.
Flemington	Hunterdon	187	22	29.6	+ 0.9	57	27†	1	7	32	3.45	+ 0.06	0.70	7.0	9	10	9	9	nw.	H. E. Deats.
Friesburg	Salem	100	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. C. Perry.
Haddonfield	Camden	75	16	32.8	+ 1.3	65	27	1	7	31	2.38	− 0.94	0.78	2.0	9	9	10	9	nw.	C. F. Richardson.
Hammonton	Atlantic	80	12	.....	.....	.....	.....	.....	.....	.....	1.48	− 1.96	0.65	3.1	11	.....	.....	.....	.....	Orville Bassett.
Hightstown	Mercer	85	18	31.7	+ 1.6	63	27	2	7	32	2.95	− 0.79	0.87	4.0	9	10	9	9	nw.	Ernst Wenger.
Imlaystown	Monmouth	106	24	31.6	+ 0.7	63	28	2	7	32	3.56	− 0.02	1.70	3.0	9	11	7	10	nw.	Dr. F. C. Price.
Indian Mills	Burlington	76	21	33.6	+ 1.5	66	27	1	7	37	1.39	− 2.63	0.48	2.0	9	9	10	9	nw.	James Armstrong.
Jersey City	Hudson	15	12	31.2	0.0	61	28	2	7	23	4.09	− 0.10	1.53	5.0	10	9	9	10	nw.	S. K. Pearson, jr.
Lakewood	Ocean	54	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. R. Major.
Lambertville	Hunterdon	95	24	31.0	+ 0.6	60	27†	1	7	32	2.85	− 0.69	0.88	6.5	9	10	9	9	nw.	W. R. Bowne.
Layton	Sussex	550	11	23.2[a]	− 0.9	50	21†	−11	19	43	.....	.....	.....	.....	.....	10	9	9	n.	W. C. Hursh.
Little Falls	Passaic	175	7	.....	.....	.....	.....	.....	.....	.....	4.35	.....	0.98	6.2	10	.....	.....	.....	.....	A. Sweetman.
Long Branch	Monmouth	30	3	33.0	.....	58	16	2	7	29	2.54	.....	1.04	2.0	9	10	9	9	nw.	B. B. Bobbit.
Mahwah	Bergen	312	8	.....	.....	.....	.....	.....	.....	.....	3.47	.....	0.88	10.0	12	.....	.....	.....	.....	C. L. Barker.
Moorestown	Burlington	71	48	31.6	+ 1.6	65	27	2	7	32	2.42	− 1.21	0.79	3.3	10	10	8	10	nw.	J. C. Beans.
Newark	Essex	140	67	31.0	+ 1.2	60	27†	0	7	27	4.10	+ 0.42	1.15	6.1	10	8	10	10	nw.	Prof. Wm. Wiener.
New Brunswick	Middlesex	61	57	31.2[b]	− 0.1	61	28	1	7	31	.....	.....	.....	6.0	.....	10	9	9	.....	W. T. Woerner.
Newton	Sussex	678	31	25.6	− 0.1	50	28	− 6	7	37	4.47	+ 0.64	1.19	14.5	10	10	8	10	nw.	B. H. Kienbaum.
Northfield	Atlantic	.....	3	.....	.....	.....	.....	.....	.....	.....	1.95	.....	1.22	3.4	12	.....	.....	.....	.....	W. L. Flick.
Oceanic	Monmouth	16	24	33.6[b]	+ 1.8	63	27†	1	7	33	2.11	− 1.85	0.70	7.0	9	10	8	10	nw.	Prof. C. E. Dietz.
Paterson	Passaic	110	39	29.8	− 0.4	57	27	0	7	27	4.07	− 0.33	1.15	5.0	9	7	11	10	nw.	H. A. Probert.
Phillipsburg	Warren	196	13	27.8	− 0.6	51	27†	− 1	7	30	4.64	+ 0.64	1.24	11.0	10	10	8	10	w.	D. W. Smith
Plainfield	Union	100	24	30.2	0.0	59	28	1	7	29	3.79	− 0.12	1.22	6.5	10	10	9	9	sw.	John Neagle.
Pleasantville	Atlantic	26	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Van Gilder.
Pompton Plains	Morris	195	8	.....	.....	.....	.....	.....	.....	.....	4.38	.....	1.16	9.0	11	.....	.....	.....	.....	M. S. Taylor.
Rancocas	Burlington	68	47	.....	.....	.....	.....	.....	.....	.....	2.75	− 1.26	0.75	3.2	9	11	6	11	nw.	Spencer Haines.
Rivervale	Bergen	70	19	28.0[b]	0.0	60	27	− 1	7	34	3.24	− 1.03	1.20	7.5	9	11	7	10	nw.	G. S. M. Holdrum.
Runyon	Middlesex	18	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Cottrell
Somerville	Somerset	76	27	30.0	0.0	61	27	2	7	30	3.41	− 0.14	1.00	5.0	10	10	8	10	.....	P. Hardcastle.
South Orange	Essex	200	40	29.2	+ 0.2	59	27	0	7	26	3.77	− 0.25	0.90	5.5	11	11	7	10	nw.	Dr. W. J. Chandler.
Sussex	Sussex	442	20	26.0	− 0.2	50	21	− 4	7	40	4.44	+ 0.90	0.90	15.0	9	10	8	10	w.	Prof. W. H. Seeley.
Trenton	Mercer	60	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. R. Cook.
Tuckerton	Ocean	23	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. R. Austin.
Vineland	Cumberland	118	41	34.4	+ 1.9	67	28	2	7	32	1.06	− 2.73	0.64	2.0	10	11	7	10	nw.	Alfred Chalmers.
Woodbine	Cape May	43	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. R. D. Maltby.
West Virginia.																				
Bayard	Grant	2,500	8	28.2	.....	58	28	− 2	7	46	3.02	.....	0.60	16.0	14	6	8	14	w.	Solomon Clark.
Burlington	Mineral	875	15	32.0	+ 3.5	67	27	7	7	40	1.80	− 0.90	.....	17.0	5	2	20	6	nw.	J. W. Vandiver.
Franklin	Pendleton	.....	3	32.3	.....	61	16	7	7	42	1.84	.....	0.75	8.0	4	13	8	7	.....	A. A. Martin.
Lost City	Hardy	.....	4	33.0	.....	58	28	6	7	38	2.10	.....	1.10	6.0	4	12	7	9	w.	B. D. Hinegardner.
Martinsburg	Berkeley	435	19	29.8	+ 1.1	58	16†	6	7	38	2.79	+ 0.42	0.70	7.0	6	16	6	6	nw.	G. W. Van Metre, C. E.
Moorefield	Hardy	900	14	34.4	+ 4.3	65	16	5	18	46	2.05	− 0.57	1.00	10.0	6	3	19	6	nw.	John C. Fisher.
Romney	Hampshire	824	14	30.1	− 0.3	64	16	− 6	7	42	2.04	− 0.22	0.87	10.5	6	14	11	3	w.	John C. Linthicum.
Upper Tract	Pendleton	1 230	12	34.1	+ 4.0	62	16	7	1	42	2.46	+ 0.50	0.60	14.0	9	4	15	9	w.	J. M. Mallow.
Maryland.																				
Annapolis	Anne Arundel	45	32	33.7	− 0.6	65	15	8	7	28	1.81	− 2.02	0.70	.....	6	14	7	7	nw.	W. M. Abbott.
Bachmans Valley	Carroll	860	17	30.4	+ 3.0	58	27	2	7	26	3.43	− 0.94	1.05	3.5	10	11	10	7	s.	
Baltimore	Baltimore	115	40	34.8	+ 0.2	67	16	8	7	27	2.28	− 1.23	0.71	3.8	9	13	7	8	sw.	U. S. Weather Bureau.
Cambridge	Dorchester	25	12	37.3	+ 2.2	74	28	8	7	36	2.24	− 2.09	0.73	7.0	7	14	6	8	nw.	T. E. Keenan.
Cheltenham	Prince George	230	10	35.7	.....	70	28	7	7	32	1.30	.....	0.20	2.0	9	10	12	6	nw.	J. E. Burbank.
Chester	Queen Anne	15	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chestertown	Kent	80	25	34.6	+ 2.8	68	28	6	7	31	1.58	− 1.65	0.47	2.0	9	15	9	4	nw.	Hon. M. de K. Smith.
Chewsville	Washington	530	13	30.6	+ 2.6	57	28	5	7	32	3.23	+ 0.57	0.65	5.5	8	8	14	6	nw.	D. Paul Oswald.
Clear Spring	...do	650	13	28.0	+ 0.9	54	16†	4	7	34	3.70	+ 0.39	1.00	10.0	8	10	13	5	w.	W. W. Frantz.
Coleman	Kent	80	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
College Park	Prince George	170	20	34.2	+ 1.7	67	16	7	7	36	1.23	− 2.73	0.63	.....	5	.....	.....	.....	nw.	Prof. H. J. Patterson.
Cumberland	Allegany	700	36	.....	.....	.....	.....	.....	.....	.....	1.98	− 0.91	1.15	10.0	6	.....	.....	.....	.....	J. W. Frantz.
Darlington	Harford	300	18	31.4	+ 1.8	66	28	1	7	39	2.59	− 0.90	0.73	3.0	9	8	12	8	nw.	Prof. A. F. Galbreath.
Denton	Caroline	42	15	35.5	+ 3.4	72	28	5	7	37	1.19	− 2.24	0.36	4.0	7	16	2	10	s.	H. B. Mason.
Easton	Talbot	35	19	35.7	+ 2.5	71	28	8	7	33	0.78	− 2.93	0.31	3.0	5	15[a]	4[a]	8[a]	nw.	Henry Shreve.
Emmitsburg	Frederick	720	37	32.0[b]	+ 0.4	55	16†	2	7	32[b]	4.02	+ 0.74	0.87	7.0	10	10	12	6	n.	Jno. H. Eckenrode.
Fallston	Harford	450	40	31.8	+ 0.4	62	16	2	7	26	2.29	− 1.69	0.62	2.0	12	5	20	3	w.	J. H. Curtiss.
Frederick	Frederick	275	33	31.8	− 0.9	59	16	7	7	26	3.54	+ 0.48	0.81	3.6	10	12	9	7	nw.	Henry Trail.
Frostburg	Allegany	1,929	9	30.0	.....	60	27	0	7	31	2.81	.....	0.94	9.2	10	17	3	8	.....	L. B. Abbott.
Great Falls	Montgomery	270	19	33.4	+ 2.1	65	16	8	7	32	2.01	− 0.94	0.60	0.5	6	10	16	2	se.	J. W. Bissett.
Green Spring Furnace	Washington	450	18	31.2	+ 1.5	56	27	7	7	26	2.06	+ 0.17	1.05	8.0	11	15	6	7	w.	E. G. Kinsell.
Keedysville	...do	400	6	31.9	.....	59	28	6	7†	40	3.43	.....	0.65	5.5	12	14	6	8	nw.	J. A. Miller.
Lake Montebello	Baltimore	.....	1	.....	.....	.....	.....	.....	.....	.....	2.11	.....	0.75	4.0	10	16	1	11	nw.	Martin L. Dobler.
La Plata	Charles	190	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. R. H. Lee Reich.
Laurel	Prince George	150	16	33.2	+ 1.8	66	16	7	7	33	2.01	− 1.60	0.88	2.0	7	10	14	4	.....	Dr. T. M. Baldwin.
Monrovia	Frederick	630	23	32.1	+ 0.7	59	16†	4	7	25	2.96	− 0.25	0.97	3.5	11	13	4	11	s.	J. H. Lawson.
Pocomoke City	Worcester	37	17	39.2[a]	+ 3.1	72[a]	28	9[a]	7	35[a]	2.04	− 1.74	1.15	0.8	8	18	7	3	n.	R. M. Stevenson.
Porto Bello	St. Mary	38	5	35.0[f]	.....	70[f]	22	18[f]	6	50[f]	.....	.....	.....	.....	.....	.....	.....	.....	.....	Alpheus Hyatt.
Princess Anne	Somerset	17	17	38.0	+ 4.4	73	28	9	7	39	1.35	− 2.66	0.43	2.0	8	11	12	5	nw.	Jas. R. Stewart.
Rockville	Montgomery	421	3	33.6	.....	63	16	5	7	29	2.77	.....	0.65	2.0	9	15	5	8	.....	Dr. Geo. E. Lewis.
Salisbury	Wicomico	23	5	39.0[c]	.....	74	28	7[a]	7	34[a]	1.50	.....	0.59	4.0	8	14	12	2	sw.	W. E. Downing.
Sanatorium	Frederick	.....	2	29.4	.....	56	28	0	7	26	3.97	.....	0.88	6.0	11	11	6	11	w.	Dr. W. M. Garrison
Solomons	Calvert	20	19	36.7	+ 2.5	69	28	10	7	28	2.15	− 1.26	0.84	1.2	7	7	8	13	nw.	Dr. W. H. Marsh.
Sudlersville	Queen Anne	65	11	35.0	+ 3.3	69	28	5	7	33	1.24	− 2.64	0.35	3.0	11	14	5	9	nw.	Jas. E. Higman.
Takoma	Montgomery	320	12	31.8	+ 1.6	67	16	5	7†	42	1.46	− 1.80	0.85	.....	8	2	16	10	.....	L. M. Moores.
Taneytown	Carroll	450	11	30.4[b]	.....	57[b]	27[b]	4[b]	7	39[b]	3.88	+ 0.51	0.95	6.0	10	15	5	8	nw.	R. A. Nusbaum.
Towson	Baltimore	465	2	32.6	.....	63	16	4	7	28	2.25	.....	0.54	4.5	9	18	2	8	nw.	C. W. E. Treadwell.

TABLE 1—*Climatological data for February, 1910. District No. 1*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Maryland—Cont'd.																				
Van Bibber	Harford	100	13	30.3[a]	− 0.1	60[a]	16	4[a]	7	42[a]	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Benj. Ford.
Westernport	Allegany	1,000	16	32.2	+ 3.9	61	27	5	7	33	2.32	− 0.02	0.65	7.0	9	.....	.....	.....	.....	Prof. O. H. Bruce.
Woodstock	Baltimore	392	36	34.1	+ 1.7	65	27	5	7	32	2.19	− 1.13	0.68	3.5	11	14	4	10	sw.	Rev. A. J. Donlon, S. J.
District of Columbia.																				
Washington	District of Columbia	112	40	34.7	+ 0.2	68	16	8	7	28	2.20	− 1.22	0.83	3.4	9	11	10	7	nw.	U. S. Weather Bureau.
Delaware.																				
Delaware City	Newcastle	.....	8	33.5	.....	65	28	3	7	32	0.57	.....	0.20	2.0	4	17	6	5	nw.	H. Morton Price.
Dover	Kent	.....	22	35.4	+ 0.3	70	28	4	7	47	1.84	− 1.72	1.24	2.0	5	17	2	9	sw.	Thos. F. Dunn.
Milford	....do	.....	26	37.8	+ 3.6	73	28	5	7	32	1.91	− 2.27	0.68	6.0	9	13	8	7	nw.	C. J. Holzmueller.
Millsboro	Sussex	.....	18	36.9	+ 3.8	73	28	5	7	37	1.82	− 2.24	0.81	3.0	10	18	2	8	sw.	Rev. L. W. Wells.
Seaford	....do	.....	17	36.7	+ 3.8	72	28	6	7	37	1.16	− 2.73	0.28	3.0	8	15	5	8	s.	E. B. Brown.
Virginia.																				
Culpeper	Culpeper	450	2	22.6	.....	61	16	7	7	30	3.48	.....	1.20	3.5	9	13	7	8	s.	Col. H. C. Burrows.
Dale Enterprise	Rockingham	1,350	31	32.1	− 1.3	59	15†	1	7	49	2.80	− 0.22	0.90	5.0	9	8	9	11	s.	Rev. L. J. Heatwole.
Doswell	Hanover	134	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rich., Fdksbg. & Pot. R. R.
Eastville	Northampton	15	...	41.0	.....	73	17	13	7	29	2.12	.....	0.83	5.2	11	16	5	7	sw.	Thos. B. Robertson.
Fredericksburg	Spottsylvania	100	21	37.0	+ 3.1	73	28	8	7	34	1.91	− 0.90	0.58	2.5	12	12	7	9	sw.	S. G. Howison.
Lincoln	Loudoun	500	9	33.0[f]	.....	61	27†	4	7	30	3.02	.....	0.84	.....	6	.....	.....	.....	n.	Dr. Geo. Roberts.
Mount Weather	....do	1,726	6	29.0	+ 1.5	58	16	1	7	31	2.45	+ 0.12	0.83	4.1	11	12	5	11	nw.	U. S. Weather Bureau.
Nokesville (near)	Fauquier	350	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Andrew Low.
Quantico	Prince William	16	13	33.3	.....	65	16	5	7	33	2.84	.....	0.98	2.0	8	.....	.....	.....	nw.	Rich., Fdksbg. & Pot. R. R
Shenandoah	Page	937	9	.....	.....	.....	.....	.....	.....	.....	2.48	.....	1.03	4.3	9	19	2	[illegible]	sw.	Norfolk & Western Ry.
Staunton	Augusta	1 380	18	33.4	− 0.5	62	16	4	1	35	3.18	+ 0.25	1.10	4.5	7	15	6	7	sw.	Ernest Nothnagel.
Stephens City	Frederick	710	18	33.0[b]	+ 2.5	65	16	4	7	30	1.82	− 1.16	0.63	2.0	7	.....	.....	.....	w.	B. T. Argenbright.
Warsaw	Richmond	160	18	37.2	+ 2.9	70	28	10	8	33	2.24	− 1.24	0.70	4.0	9	3	21	4	n.	C. H. Constable.
Woodstock	Shenandoah	927	14	33.4	+ 3.1	61	16	6	7	36	2.32	− 0.46	0.77	8.3	11	16	6	6	w.	Miss A. G. Miley.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
| Estimated by observer.
|| Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 1, North Atlantic States.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Maine.																																	
Bar Harbor	Coast			.17	.48	.25	T.			T.	.55		1.10	.10			T.	.20	.40			.40	T.	.45				T.	1.30				5.40
Cornish	Saco			.50	.80	T.				.47			.80					.40	.75			.72	.35	.10				.14	.16				5.19
Danforth	Penobscot				.05	.08					.15		.50				T.		.85			.40		.20				.15	.10				2.48
Debsconeag	do																																
Eastport	Coast			.06	.61	.13		.09		.22	.17		.65	.07			.09	.52	.26			.64	.17	.18				.21	.45				4.52
Fairfield	Kennebec																																
Farmington	do			.11	.19						.20		.70			T.		.48				.60		.12				.37	.20				2.97
Gardiner	do			.13	.83	.02					.30		.90	.04				.23	.80			.76		.18				T.	.11				4.30
Greenville	do			.20	.10	.20	T.		.05	.10	T.		.90	T.	T.	T.	.12	.30	.55	T.		.31	.04	.16			T.	.16	.32				3.51
Houlton	St. John													.60				.60	.10			.40						.30					2.00
Lewiston	Androscoggin			.43	.53	.02					.27		.66	T.				.34	.81			.67	.21	.09					.21				4.24
Madison	Kennebec			.11	.52	.04			*	.28			.58	.06			.05		.41			.31		.11				.13	.09				2.69
Millinocket	Penobscot				.03	.03	.08	T.	T.		.23		.12	.93		T.	.10		.85			.30	.38	.10	.03		T.		.38				3.56
North Bridgeton	Saco			1.10		.02					.31			1.01			T.		.51			.95		.27					.31				4.48
Orono	Penobscot				*	.60				.18			.70				.05		.70			.56		.30				.05	.28				3.42
Oquossoc	Androscoggin	.10			.60								.80			.15	.20	.50				.60						.50	.60				4.05
Patten	Penobscot				.05	.10							.80	.20			.20		1.20			.11		.20					.48				3.34
Portland	Coast			.79	1.00	T.				.32		T.	1.02	T.			T.	.38	.15		.01	.54	.41	.07				.02	.13				4.84
Presque Isle	St. John																																
Rumford Falls	Androscoggin			.49	.16	.02			T.	.08	T.		.71	T.		T.	.11	.30	.42			.06	.09	.05				.10	.09				2.68
The Forks	Kennebec			.28		.20			.15				.85						.71			.35			.18			*	.60				3.32
Winslow	do				*	.35							.60					.60				.55	.15					*	.16				2.41
New Hampshire.																																	
Alstead Center	Connecticut			.29	.36	T.				T.	.17		.48					.60	.70			.41	.43	.01				.13	.23				3.81
Benton	do			.46		T.					T.		.48	.11	T.	T.			.95			T.		.35					.60				2.95
Bethlehem	do			.30	.20	.10					.05		.30	.10				.20	.40			.25	.20	.10				.16	.54				2.90
Brookline	Merrimac			*	1.00					.05			1.20					.50				.25	.50						.15				3.65
Concord	do			.48	.44					.32			1.00			T.	T.	1.07	.09		.03	.41	.54	T.				T.	.39				4.77
Durham	do				.76								.81					.67						.30					.40				2.94
Franklin	do			.45	.79	T.					.39		.75	T.			T.	.54	.65			.53	.33	.11				.01	.05				4.60
Grafton	do			.40	.40						.30		.80	.05				*	1.20			.65	.30	T.				.10	.15				4.35
Hanover	Connecticut			.22	.79					.17	.06		.51	.04	.01			.31	.53			.18	.27	T.				.16	.30				3.55
Keene	do			.20	.27					T.	.25		.67					.65	.79			.65	.35	T.				.07	.13				4.03
Nashua	Merrimac			*	1.22					.31		*	1.60				T.	.89	.54		T.	.42	.63					.01	.50				6.12
Newton	do			.06	1.38					.32			.98				T.	1.07				.41	.24					T.	.23				4.69
Plymouth	do			.47	.52	T.					.37		.51				.07	.24	.55			.32	.17	.18				.07	.30				3.77
Vermont.																																	
Bloomfield	Connecticut			.09	.17	.05					.14		.20	.06		.04		.12	.50			.33		.16				.25	.62				2.73
Cavendish	do			.47	.19	T.					.40		.59		T.			.44	.66			.26	.20					*	.39				3.60
Chelsea	do			.50	.40						.12		.75				.08	.20	.40			.18	.20	.08				.15	.75				3.81
Jacksonville	do			.15						.01	.10		.10	.06	.01	.07		1.00	.30	.10			.20	.10				.20	.25				2.65
Manchester	Hudson			.57	.09						.13				T.		T.	.49				.29						.81	.61				2.99
St. Johnsbury	Connecticut			.56	.71	.11			T.		.04		.63	.04	.05	.03	T.	.13	.70			.14	.05	.25				.21	.90				4.55
Vernon	do			.55		T.		T.	T.	.45		.21						T.				T.	T.					.31	.65				2.17
Woodstock	do			*	1.38					.34			.81		.06			.96					.45					*	.86				4.86
Massachusetts.																																	
Amherst	Connecticut			.18	.04					.51		.16	.94				.01	*	1.52		T.	.68	.47	.01				.01	.55				5.08
Ashland	Merrimac				.65					.24			1.31					.90				.46	.53						.86				4.95
Bakers Bridge	do				.46						.30		.83						.73			.52	.33						.08				3.25
Bedford	do			T.	.67					.09			1.04					.27	.74			.48	.54						.17				4.00
Blue Hill	Coast			T.	.65					T.	.19		1.18				T.	.19	.61		T.	.34	.46	.01				T.	.40				4.03
Boston	do			.21	.29					.10	.09	.15	1.07					.19	.52			.26	.32	T.					.24				3.44
Chestnut Hill	do			.60	.25					.21		1.52	.03					.92			.09	.49	.57					.12	.89				5.69
Clinton	Merrimac			T.	.64					.31			.89					*	.92			.44	.54						.83				4.57
Concord	do			T.	.58						.26		1.11				T.	.25	.78			.52	.52	.04					.10				4.16
Fall River	Coast			.18	.20					.30		.15	1.10					.50	.90			.25	.37					.01	.59				4.55
Fitchburg	Merrimac			.09	.52					.12	.25		1.05					.40	.80			.50	.28						.15				4.16
Framingham	do				.47					.23			1.64					.92				.49	.52						.83				5.10
Haverhill	do			.06	.95						.26		.96	T.				.39	.34			.39	.24	.16					.10				3.85
Hingham	Coast				.58					.22			1.46					*	.84			*	.95	T.					.20				4.25
Hyannis	do				.28					.73			2.04					*	.27			*	.47						.44				4.23
Jefferson	Merrimac				.38					.38			1.79					1.28				.54	.73	.08					.40				5.58
Lake Cochituate	do				.68					.23			1.55					.98				.44	.48						.80				5.16
Lawrence	do			.04	.84					.30			1.23				T.	*	1.26		T.	.40	.36						.13				4.56
Leominster	do			.13	.40					.39	.01		.93				T.	.44	.96			.43	.55	.04				T.	.46				4.76
Lowell	do			*	1.07					.26			1.40					*	1.37				.41	.60					.76				5.87
Middleboro	Coast				.47					.27			1.22						1.23			.21	.49						.49				4.38
Monson	Connecticut				.10					.10	.18	.05	1.00					.90	.10			.70	.90	.08					.55				4.66
Nantucket	Coast			.01	.09	T.		T.		.57	.07	.20	1.63	T.	T.			.08	.12			.09	.20			T.			.35				3.41
Norfolk	do				.33						.16			1.11	T.			T.	.64	T.		.11	.27	T.					T.				2.62
Northampton	Connecticut			T.	.40						.57	*	1.23					.84				.61	.04	T.					.49				4.18
Plymouth	Coast	.03			.62						.30		1.00						1.29			.05	.78					T.	1.00				5.07
Princeton	Merrimac			*	.32					.24			1.54					*	1.08			.55	*	.53					.38				4.64
Provincetown	Coast				.58			.05			.46		.30						1.09			T.	.48	.12					.35				3.43
Rockport	do				1.50						.35		.80						.10			1.40	.90						.20				5.25
Rutland	Connecticut			.36	.03					.39		1.24	.07				T.	1.39				.64	.47	T.					1.07				5.66
Salem	Coast																																
Somerset	do				.29					.44			.97					1.23				.54	.34						.61				4.42
South Egremont	Housatonic			.20						.20		.80	.10			.08		.40			.65	.25	.50					.40	.58				4.16
Spot Pond	Coast				.60					.21			1.37			.01		.85				.49	.49	.01					.81				4.84
Sterling	Merrimac			*	.57					.37		*	1.50					*	1.32			.45	.50						.91				5.62
Taunton	Coast				.47					.38			1.13				T.	*	1.04			.34	.57					*	.60				4.53
Turners Falls	Connecticut			.10	.18					*	.47	*	1.00				T.	*	1.68			.63	*	.56				*	.21				4.83
Westboro	Merrimac				.40								1.00					*	1.10				.60	T.									3.10
Williamstown	Hudson			.22	.14	T.				.08	T.		.40	T.	T.		T.	.77	.37			.48	.37	.03				.17	.11				3.14
Winchendon	Connecticut			.13	.28					.30	.08		.94				T.	.60	.87			.60	.42					.04	.29				4.55
Worcester	Coast			T.	.37					.18	.31	T.	.91					.12	.39			.51	.43	.05					.49				3.76
Rhode Island.																																	
Block Island	Coast			.26	.08	T.				.78		.02	1.36					.16	.35			.07	.28	T.				T.	.86				4.22
Bristol	do	T.		*	.40					*	.36	*	1.40					*	1.13			.31	.35						1.12				5.07
Greene	do				.36					.26			1.10						.71			*	.74						1.00				4.17
Hope Valley	do				.47					T.	.54		1.33					T.	1.08			.09	.35	.13				T.	.96				4.95
Kingston	do			.27	.20					.46			1.22					T.	1.45			.20	.28						1.05				5.13
Narragansett Pier	do			.30	.14					.53		.08	.66					.30	.79			.17	.33					T.	1.11				4.41
Pawtucket	do				.51					.21			1.00				*	*	.86			*	.89	T.				*	.75				4.22
Providence	do			.33	.08					.21		.34	.88					.40	.88			.19	.41	T.			T.	.01	.53				3.86
Wallum Lake	do									.50		.38							.30			.60	.18	T.				.10	.80				2.86
Connecticut.																																	
Bridgeport	Coast			.05	.16					.25	.08	.10	.83				T.	T.	.60			.35	.51					T.	.90				3.83
Canton	Connecticut			.24						.52			1.13					1.00				.87	.65						.70				5.11
Colchester	Coast				.16					T.	.16		.75					*	.70			.44		.58				T.	.60				3.39
Cream Hill	Housatonic				.30					.80		.20	.80	.08			.01	.50	.62			.57	.74					.17	.41				5.20
Danielson	Coast				.50						.20		.48						.75			.48	.18						.48				3.07
Falls Village	Housatonic			.15						.59		.50	.31					1.25			.35	.38	.45					.14	.70				4.82

TABLE 2.—*Daily precipitation for February, 1910. District No. 1*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
***Connecticut*—Cont'd.**																															
Farmington	Connecticut									.33	.02	.68	.43				T.	.54	.45		T.	.72	.65	T.				T.	.48				4.43
Hartford	do			.11	.02	T.					.66		.70					.89				.95	.40						.18				3.98
Hawleyville	Housatonic				.20						.35		1.35						.93			.21	.40						1.36				4.80
Lake Konomoc	Coast				.20																												
New Haven	do			.15	.08	T.				.34	T.	.35	.74					.43	.23		T.	.37	.47	T.				T.	1.21				4.37
New London	do				.33					T.	.64		1.37					*	.74				.61	T.									3.69
North Grosvenordale	do				.50					.15			1.30					.75				.34	.40						.23				3.67
Norwalk	do			*	.08					.25		*	.72					*	.64			*	.78						.99				3.46
Southington	do				.20					T.	.25		1.20					T.	.80			.75	.40	T.					.20				3.80
South Manchester	Connecticut									.39		*	.45				.42	*	1.27			.35	1.18					T.	.56				4.62
Storrs	Coast																																
Torrington	Housatonic				.04						.49		.81							.70		.81	.27	.58					.24				3.94
Voluntown	Coast				.25						.31		.85					T.	.71			.20	.15	.10				T.	.45				3.02
Wallingford	do			.16	T.					.34		1.13	.05					.73			.35	.24	.47					.25	.84				4.56
Waterbury	Housatonic			.22						.34			1.25						.82			.82	.60	T.					.22				4.27
West Simsbury	Connecticut			.17						*	.52		1.00				T.	.92				.84	.58					*	.30				4.33
New York.																																	
Addison	Susquehanna	T.		.25	.05	.02	T.			.08	T.	T.	.98	T.		T.	.08	.51	.42			.01	.42					.07	.17				3.06
Albany	Hudson		.01	.58	.08	T.				.05	T.	.09	.67	.02			T.	.80	.12		.01	.14	.48	.01				.12	.11				3.29
Alfred	Susquehanna																																
Amsterdam	Mohawk			*	.95	T.							*	.85				*	1.45				1.30					.85	T.				5.40
Athens	Hudson			T.	.36	T.				.02	.22	*	1.08				T.	1.45			T.	.46	.34	T.				.08	.36				4.37
Ballston Lake	do			*	.87	.05				T.	.08		1.11	T.	T.	T.	T.	*	1.46			.20	*	.49				*	.98				5.24
Bedford	Coast				.13					.31	.07		.70						.75			.52	.34						.33				3.15
Binghamton	Susquehanna			.24		.01	.01			.10		.60	.28	T.	T.	T.	.04	.57	.10		.04	.07	.25				T.	.06	.20				2.57
Bouckville	do			.50	.15	.15							.60	.10			.27	.35	.25			.13	.40					.61	.79				4.30
Carmel‖	Hudson			*	.19					.56		*	1.31					*	.95		*	1.17	.73					*	.12				5.03
Chatham	do			.02	.25	T.				T.	.17		.51				.02	.60	.67			.32	.33	.06					.10				3.05
Cooperstown	Susquehanna		.20	1.30						.26		*	.90					1.95				.05	.80	.20				.95	.07				6.68
Corinth‖	Hudson				1.20					.35		.95							.15					.91					1.86				5.42
Cortland	Susquehanna			.45	.10	.05				.01	.07		.75	.13			.03	.35	.34			.07	.34					.67					3.36
Cutchogue	Coast			T.	.15	T.				.09	.40		.83					T.	.98			.12	.47						.35				3.39
De Ruyter	Susquehanna		*	.55	T.	.03				.04	.04	*	.60	.13	T.		T.	.46	.52		*	.18	.36	.10			*	.76	.72				4.49
Easton	Hudson			.76							.15	*	.64					*	*	.80	*	.15		*	.51			.91					3.92
Elmira	Susquehanna									.10			1.40				.10	.45					.30						.18				2.53
Fort Hunter‖	Mohawk																																
Fort Plain	do			.57	.18	T.				.01			.73	T.	T.		.01	.42	.56	T.		.06	.61	.14				.15	.32				3.76
Glens Falls	Hudson		*	.80	.10					*	.28	*	.80	.06			*	.25	.40		*	.27	.25	.20			*	.75	.90				5.06
Gloversville	Mohawk			.80	.12	.20				T.	.24		.93		.22	.08		.65	.50			.08	.55	.20				.90	.16				5.63
Greenfield Center	Hudson			.85						.18			1.20					.60				.20	.80					.90	.75				5.48
Greenwich	do			.65	.35					.01	.11		.55	.01				.46	.64			.31	.36	.23				.45	.53				4.66
Griffin Corners	Delaware																																
Haskinville	Susquehanna			.29						.19	.13		1.20					.50					.35						.46				3.12
Homer	do	T.		.55	T.	.03	.23	T.		.08	.06	T.	.75	.15		T.	.07	.42	.46			T.	.42	T.				.27	.65				4.14
Hoosick Falls‖	Hudson		*	.06	.39					*	.06	T.	.31	.14			*	.21	1.06	.05	*	.16	.06	.50				*	.60				3.80
Indian Lake	do			.60						*	.12		1.00		.20		.20	.15	.95			.10	.30					.95	.80				5.37
Jeffersonville	Delaware			.18		T.	T.	T.		.31	T.		.43	T.		T.	.03	T.	1.17			.68	.43	T.				T.	.27				3.50
Lake Pleasant	Hudson																																
Liberty	Delaware			.01						.31	.05		1.12	.95		T.	1.20				.10		.06					.30	1.10				5.20
Little Falls	Mohawk			.40		.18				T.			.42	.18	.12		T.	.36	.36				.47					.71	.65				3.85
Mohonk Lake	Hudson				.50					.75			1.30					1.50				1.25	1.45					.31					7.06
Morehouseville	Mohawk	.05		1.20		.15				.05	.20		.70	.10	.35	.20	.10	.15	.20	.05		.15	.35	.15				.50	.40				5.05
Mount Hope	Coast									.20	T.		.50					.20				1.10	.70						.15				2.85
Newark Valley	Susquehanna	T.		.38		T.	T.	.05		.13			.82	.05			.20	.50	.38			T.	.60	T.				T.	.28				3.39
New Berlin‖	do			.15	.30						.17	T.	.43	.10	T.			.22	.62			.04	.02	.24			T.	T.	.67				2.96
New Lisbon	do			.47	.11					.17			.69	.04			.10	.53	.56			.23	.30					.49	.50				4.19
New York	Coast			.14	T.					.20	T.	.40	.80				T.	.25	.09		T.	.17	.45					T.	1.57				4.07
North Creek	Hudson		1.24										.86		.02			.84					.81					*	1.58				5.35
Northville‖	do		.35	.62	.04					.27		.40	.16				.12	.32	.67		.48		.62				.31	1.90	.37				6.72
Norwich	Susquehanna			.20	.69	.18					.21		.89		T.	T.	T.	.54	.72			.24	T.	.98				.10	1.28				6.03
Oneonta	do			.40	.27	.13	T.						.40	.10			.12	.57	.38				.35					.64	.86				4.22
Oxford	do			.40	.10	.10				T.	T.		.85	.08		.09	.09	.30	.69			.37	.40	.08				.72	.51				4.78
Port Jervis	Delaware				.21						.23	.75	.02					.29	.64		.70	.44						.02	.17				3.47
Salisbury	Mohawk			.84		.21				.11	.12		.29	.34			.48	.28				.63	.31					1.22	1.78				6.61
Salisbury Mills	Hudson			*	.27						*	.63	*	.70				*	.10			*	*	.45				.15	.66				2.96
Scarsdale	Coast			T.						T.	T.	.30	.80					T.	.25		T.		.50					T.	1.20				3.05
Setauket	do			.06	.10	T.	T.			.20	T.	T.	.90					T.	.33			.15	.38	T.				*	.84				2.96
Sherburne‖	Susquehanna		*	.10	.52	.02				*	.17	T.	1.12				*	.27	.77		*	.11	T.	.48			*	.11	.95				4.62
Southampton	Coast				.17	T.	T.			T.	.30		1.57				T.		.45			T.	.52						.19				3.20
Spier Falls	Hudson			.80	.35						.27		.90					.30	1.05			.25	.35	.20				.65	1.05				6.17
Trenton Falls‖	Mohawk			.35	.50	.05	T.			T.	.41	T.	.41	.20	.05	.06	T.	.13	.43	T.		.35	T.	.40	.02			.22	1.81				5.39
Tribeshill‖	do			1.20		.20						*	1.40					.40	.20			.10	.90					1.10					5.50
Utica‖	do			.26	1.05	.02				.10	.11	.50	.34	.10	.25	.05		.33	.25		.12			.37	.05			.21	1.00				5.12
Wading River	Coast			*	.17	.01				.03	.53	*	.82					.02	.78			.15	.50	.04					.67				3.72
Wappingers Falls	Hudson			.05	.15					.24	.52	.10	.92				.05	.42	.92		.10	.62	.51	T.				.15	.52				5.27
Warwick	do				.23					.34		.70	.26					.20	.70			.80	.40						.42				4.05
Waverly	Susquehanna			.03	.29	T.	T.			.14		T.	1.00	.05			.04	.45	.47				.52					.01	.13				3.13
West Berne	Mohawk			.30		.10				T.			.80					.50	.30				.50					.05					2.55
West Point	Hudson			*	.20					.80		*	.80					*	.40			.90	.40										3.50
Windham	Mohawk			.13	.20	.03					T.		.80				T.	.64	.50			.30	.22					.15	.15				3.12
Pennsylvania.																																	
Altoona	Susquehanna					T.				.05		.50	.36	T.						.60									.67				2.18
Ansonia‖	do				.07						.11		.72	.02	.02			.30	.46			T.	.22	.05				.09	.41				2.47
Bellefonte	do																																
Bethlehem	Lehigh				.15	.90				.54	T.		.77					T.	1.19			1.07	.50						.15				5.36
Browers Lock	Schuylkill			.16	.05		T.			.19	.04	.30	.15					.50	.20			.60	.88						.60				3.67
Catawissa	Susquehanna			.18			T.			.20		.50	.45				.22	1.19			.30	.31	.30					.20	.10				3.95
Center Hall	do			.05						.05		.25	.60	T.	T.			.65				.20		T.				.05	.20				2.05
Clearfield	do			1.00						.21		.21	1.46				.84	.07				.31	T.	T.				.41					4.51
Coatesville	Coast			.18	.01		T.			.42	T.	.55	.53					.27	.22		.01	.66	.29						.90				4.04
Doylestown	Schuylkill									.22	.51		.12	.54					.61			.91	.74						1.74				5.39
Drifton	Susquehanna			.20	.10	.04				.50	.05	.10	.60				.15	.25	.40	.30	.40	.80	.40					.20	.20				4.69
Emporium	do			.03		T.				.20	.05	.30	.85	.10	T.		.40	.45	.10		T.	.40	.20					.62	.41				4.11
Ephrata	do			.03	.11		.01			.32	.07	.02	.67	T.				T.	1.30		.03	.51	.73						.35				4.15
Everett	Juniata			.08		T.	T.			.15	.04	.30	.35					.16			.20	.25	.45						.22				2.20
Forks of Neshaminy	Delaware			.16							.21		.65						.32			.42	.42						1.40				3.58
George School	do			.11	.01						.14	.80						.28			.01	.32	.22			T.		.70				2.68
Gettysburg	Potomac			.01	.04					.31	.03	.21	.62					.15	.65		.08	.75	.55					.38					3.78
Girardville	Susquehanna			.19		.03				.40	.01	.60	.25	.02			.08	1.05	.05		.30	*	.65	.30				.20	.31				4.44
Gordon	do			.08	.15		.05					.30	.69				T.	.48	.46			.86	.45					.26	.24				4.02
Hamburg	Schuylkill			.21						.26	.24							.25			1.18	1.12	.15					.30	.31				4.02
Hanover	Susquehanna			.16			T.			.45		.27	.52					.98			.21	.72	.37						.45				4.13
Harrisburg	do			.10		T.	T.			.26		.75	.09				.01	.46	T.		.16	.64	.45					.01	.61				3.54
Huntingdon	Juniata			T.			T.			.11		*	.90					.45				.35	.25					.21	.07				2.34

TABLE 2.—*Daily precipitation for February, 1910. District No. 1*—Continued

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Pennsylvania—Cont'd.																															
Hyndman	Potomac			.04		T.	T.			.19	T.	.70	.18				T.	.33	T.		.10	.19	.17					T.	.12				2.02
Kennett Square	Coast				T.		T.			*	.31							.26	T.			.33							.67				1.57
Lancaster	Susquehanna																																
Lansdale	Schuylkill			.12						.16		.10	.42						.39		.50	.12	.18						1.24				3.23
Lawrenceville	Susquehanna			.05	.10	T.				.10	T.		1.00	.05			.05	.70	.70				.50					.18	.15				3.58
Lebanon	...do			.05	.12		.01			.35	.15	.38	.62					.06	.65		.10	.88	.50					.02	.50				4.39
Le Roy	...do	.01		.10		.01	T.			.07	.02	.02	.70	.10	.05		.14	.52	.60			.27	.28	.01				10	.15				3.15
Lewisburg	...do			.15	.04					.20			.95				.04	.63			.02	.71	.45					.32	.20				3.71
Lock Haven	...do			.15						.13		.10	1.00				.02	.13	.14			.30	.38					.32	.15				2.82
Marion	Potomac			.12						.23		.32	.84					.10	.53		.41	.12	.50						.45				3.62
Mauch Chunk	Delaware			.07						.54		.21	.58					.24	.55		.13	.17	1.00					.08	.40				3.97
Mifflintown	Juniata			.08	.01		T.			.13		.14	.72					.54	.13			.42	.40					.32	.22				3.11
Milford	Delaware			.09		T.				.40	T.		.80					.95				.87	.60					.25					3.96
Montrose	Susquehanna			*	.80					.05			.76	.30			.23	T.	1.44			.22	.43				.05		.15				4.43
Mountain House	Juniata			.13						.10		*	1.07					.42				.45	.47						.41				3.05
Muncy Valley	Susquehanna			.98						.28		.60	.20	T.	T.		T.	T.			T.	T.	T.					.73	.30				3.09
New Germantown	...do											.85						.48			.50		.40						.54				2.77
Ottsville	Delaware			.08						.44	.02	.21	.60					.11			.02	.55	.64						.68				3.35
Philadelphia (1)	...do			.21	T.		T.		.01	.20	T.	.20	.50					.28	T.		.01	.31	.19						1.08				2.99
Pocono Lake	...do			.10						.20							T.					.44	.31					.14	.22				1.41
Point Pleasant	...do			.12	.04					.30	.08	.29	.45					.11	.40		.03	.71	.48						.63				3.64
Pottsville	Schuylkill			.11						.41		.42	.35					.86			.10	.93	.35					.13	.53				4.19
Reading	...do			.25						.49		.29	.31					1.29	.01		.15	.97	.56						.51				4.83
Renova‖	Susquehanna				.08						.16		1.04	.10			T.	.56	.62			.32	.20	.20					.04	.36				3.68
Scranton	...do			.21		T.				.13	T.	.44	.46	T.	T.		.13	1.09	.07		.14	.60	.11	T.				.30	.26				3.94
Seisholtzville	Schuylkill			.18	.04					.59		.16	.32					.37	.61		.03	.91	.47						.39				4.07
Selinsgrove	Susquehanna			.06	.06					.17	T.		.93				T.	.62	.35			.18	.29					.21	.08				2.95
Shawmont	Schuylkill			.05	.15					.15	.05	.05	.23						.20			.35	.30						1.25				2.78
Smiths Corners	...do			.11						.36	.06	.15	.62					.24	.29			.79	.51						.86				3.99
Spring Mount	...do				.11					.25	.14		.68					.19	.38		.02	.68	.56						.76				3.77
State College	Susquehanna	T.		T.	T.	T.	T.			.02	T.	.35	.78	.10	T.		.59	.61	.06		.10	.35	.32					.34	.20				3.82
Towanda	...do	T.		.18	T.	T.	T.			.07	.01	.02	.63	.02	T.	T.	.11	.59	.55			.12	.28					.01	.09				2.68
Wellsboro	...do			.12						.14		*	1.10					*	.95				.32					.30	.25				3.18
West Chester	Coast			.20	.04					.27	.02	.29	.59					.07	.19			.50	.24						1.36				3.77
Wilkes-Barre	Susquehanna			.21						.22		.52						.45			.60	1.25	.16					1.58	.32				5.31
Williamsport	...do			.14		.04				.08		*	.92				*	.93			.38	*	.35					.23	.25				3.32
New Jersey.																															
Asbury Park	Coast			.10					.06	.10		*	1.00					*	.08		T.	*	.35						.15				1.84
Atlantic City	...do			.07	.03		T.		.07	.09		.50	.99					.05	.08			.25	.01						.60				2.74
Bayonne	...do			.04	.06					.23	T.	.15	.68	T.			T.	.01	.37		T.	.19	.44	T.				T.	.71				2.88
Belvidere	Delaware									.63		*	.92	T.							*	1.24	.51						.15				3.45
Bergen Point	Coast			.05	.17					.17		.02	.88	T.				*	.40		T.	.19	.42						.94				3.24
Boonton‖	Passaic			*	.22					*	.21	T.	.89	.01				*	.38		*	.43	.24	.48					.24				3.10
Bridgeton	Coast			.25			T.		.05	T.		*	.65					.12			.05	*	.25						.83				2.20
Burlington‖	Delaware			.22			T.			.20		*	.60			T.		.20			.04	.30	.25						1.19				3.00
Canton	Coast			.19		T.	T.		*	.09		*	.45					.22				*	.37						.10				1.42
Cape May	...do	.05		.07	T.		.01		.09	.13		.63	.78					.05	.08		T.	.29		T.					.15				2.33
Charlotteburg	Passaic			.11						.55		*	.46					*	.75			1.05	.32						.85				4.09
Chatham‖	...do			*	.20					*	.20	*	.45	.08				*	.63		*	.15	.30	.70					.18				2.89
Clayton	Coast			*	.10		T.			.14		*	.78					*	.25		T.	*	.31						*				1.58
College Farm	...do			*	.22					.27		*	.57					.05	.35		T.	.20	.56					.01	.35				2.58
Culvers Lake	Delaware			.12		T.				.44	T.	*	.92	.02				.02	.86		*	.82	.52	T.				.03	.32				4.07
Dover	Passaic			.70						.50		*	.75				T.	.62			*	1.13	.41					*	.70				4.81
Elizabeth	Coast			.18						.25	T.	*	.50					*	.52		*	*	.68					T.	.75				2.88
Flemington	...do			.20	T.					.34		*	.70					*	.54		T.	.63	.60					T.	.44				3.45
Friesburg	...do																																
Haddonfield	Delaware			.10	.07		T.		T.	.21	T.	.10	.68					.12	T.	T.	T.	.36	.21						.52				2.38
Hammonton	Coast			*	.12		T.		.09	.07		*	.65					*	.18	T.		.02	.24						.11				1.48
Hightstown	Delaware			.25						.22		*	.87					.20			.10	.18	.39						.74				2.95
Imlaystown	...do			.15						.16		*	.72					.30			.07	*	.46						1.70				4.56
Indian Mills	Coast			.12						.10		*	.48					*	.10			.11	.36						.12				1.39
Jersey City	...do			.19	T.	T.				.27		.20	.86	T.				.29	.15		.01	.20	.39	T.				T.	1.53				4.09
Lakewood	...do																																
Lambertville	Delaware			.18						.26		*	.88					*	.37		T.	.43	.55					T.	.18				2.85
Layton	...do																																
Little Falls	Passaic			.19	T.					.45		.30	.55					.79	.02		.04	.60	.43					T.	.98				4.35
Long Branch	Coast			.12						.27		*	1.04					*	.15			.12	.58					T.	.26				2.54
Mahwah‖	Passaic				.18					*	.41	*	.84					*	.73		*	.88	.43										3.47
Moorestown	Delaware			.04	.14		T.		.02	.14	T.	.02	.57					.22	T.		T.	.17	.31						.79				2.42
Newark	Passaic			.16						.38		.45	.20					.35	.15		.10	1.15	.16						1.00				4.10
New Brunswick	Coast																																
Newton	Delaware			.11						.50		*	.81					*	.90			1.19	.49					.03	.44				4.47
Northfield	Coast	.04		*	.06				*	.12		*	1.22					*	.15			.04	.19						.13				1.95
Oceanic	...do			.15						.22		*	.70					*	.22			*	.63						.19				2.11
Paterson	Passaic			.21						.40		*	1.15					*	.63		T.	.58	.52					T.	.58				4.07
Phillipsburg	Delaware			.21	T.					.51	T.	.30	.40	T.				1.18	.06		.10	1.07	.39						.42				4.64
Plainfield	Coast			.07	.12					.25	T.	.20	.69				T.	.02	.40		T.	.35	.47					T.	1.22				3.79
Pleasantville	...do																																
Pompton Plains‖	Passaic			*	.04					*	.56	*	1.16					*	.88		*	.65	.36	.46					.27				4.38
Rancocas	Delaware			.27	T.		T.		T.	.25	T.	.30	.35					.25	T.		.01	.25	.32						.75				2.75
Rivervale	Coast			.04						.06		*	.74					*	.10			1.20	.20					T.	.90				3.24
Runyon	...do																																
Somerville	...do			*	.20					.20		*	1.00				T.	*	.43		T.	.50	.60					T.	.48				3.41
South Orange	...do			*	.14	T.				.40	T.	.10	.80					.15	.34		.02	.43	.54					T.	.85				3.77
Sussex	Hudson			.10						.84		*	.70					*	.90		T.	.80	.60					T.	.50				4.44
Trenton	Delaware																																
Tuckerton	Coast																																
Vineland	...do			.14			T.		.01	.05		*	.64					*	.10			.04	.08					T.	*				1.06
Woodbine	...do																																
West Virginia.																															
Bayard	Potomac	.10		.13	.07		T.			.17	.18	.18	.60	.20				.21	.10			.27	.50		.10				.21				3.02
Burlington	...do			T.			T.			T.		*	1.00					.30			T.				.20				.30				1.80
Franklin	...do									T.		.32	.47					.75											.30				1.84
Harpers Ferry‖	...do										.15		.69						.82			.42	.33										2.41
Lost City	...do			T.			T.				.10	1.10						.40			T.							.50				2.10
Martinsburg‖	...do									.22		.70						.62			.20	.47							.58				2.79
Moorefield	...do			T.			T.	T.		.11		1.00	T.					.15			.05		.49	T.					.25				2.05
Romney‖	...do	T.		T.			T.				.22		.87						.33			.37	.22	.03				T.					2.04
Upper Tract	...do			T.			T.			.03		.50	.48	.60				.45			.10	.05	.04						.21				2.46
Maryland.																															
Annapolis	Coast	.10		.20					.20			.70									.40								.21				1.81
Bachmans Valley	...do			.13	.07					.23	.21	T.	.35					.15	1.05		T.	.61	.36						.27				3.43
Baltimore	...do			.11	T.		T.		T.	.17		.43	.22					.14			.10	.33	.07					T.	.71				2.28
Cambridge	...do	.40		.41					.18			*	.73					.23				.21	.08										2.24

TABLE 2.—*Daily precipitation for February, 1910. District No. 1*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Maryland—Cont'd.																																	
Cheltenham	Coast			.10						.10	.07		.30						.30		.06	.21	.06						.10				1.30
Chester	do																																
Chestertown	do	.05		.06	.47		T.			.12			.28						.10		T.	.28	.16						.06				1.58
Chewsville	Potomac			.04						.14		.65						.73			.08	.47	.47						.65				3.23
Clear Spring	do	T.			.37			T.			.20		1.00						.72			.32	.48						.11				3.70
Coleman	do																																
College Park	do										.08								.40		*	.63	.12										1.23
Cumberland	do				.15						.08		1.15					T.	.33			.05	.25					T.					1.98
Darlington	Coast			.06	.08		T.			.12	.11	*	.73					T.	.21		T.	.39	.21						.68				2.59
Denton	do	.14		T.	.44					.05			.36								T.	.09	.05						.06				1.19
Easton	do	.20											.31						.05				.20						.02				0.78
Emmitsburg	Potomac			T.	.14			T.	.40			*	.79					.28	.63		.10	.87	.52						.29				4.02
Fallston	Coast			.10	.05		T.			.09	.08	.07	.44					.01	.22		.08	.42	.11						.62				2.29
Frederick	Potomac			.07	T.		T.			.35		*	.67					.81	.22		.10	.47	.25		T.				.60				3.54
Frostburg	do			.15	.02			.06		.24		.45	.94					.20			.20	.28							.27				2.81
Great Falls	do				.12								.48						.60			.42	.27						.12				2.01
Green Spring Furnace	do			.08	.04		T.			.16		*	1.05					.11	.43		.05	.35	.42						.37				3.06
Keedysville	do			.02	.01		T.			.15	.03	.20	.57					.25	.65		.04	.60	.48						.43				3.43
Lake Montebello	Coast	T		*	.14					.10	T.	*	.40					T.	.14		*	.43	.15					T.	.75				2.11
La Plata	do																																
Laurel	do			.03			T.		.05	.12			.65								.10	.18							.88				2.01
Monrovia	Potomac			.07			T.			.22	.03	.10	.28					.12	.97		.05	.47	.23						.42				2.96
Pocomoke City	Coast	.08		.14					*	.29		.08	1.15						.20										.10				2.04
Porto Bello	do																																
Princess Anne	do	.10		.15			T.		.25	.08		.43				..			.16			.10							.08				1.35
Rockville	Potomac			.08			T.		T.	.10		T.	.65					.05	.62		.05	.51							.71				2.77
Salisbury	Coast	.28		.12	.01				T.	.28		T.	.59					T.	.18			.03							.01				1.50
Sanatorium	Potomac			.03	.06		T.			.21	T.	.16	.88					.03	.84		.07	.65	.71						.33				3.97
Solomons	Coast			.09			T.		.30			.12	.29					.40			T.	.11	T.					T.	.84				2.15
Sudlersville	do	.10		.04	.10		T.			.11	.03		.35						.10		.04	.22	.10						.05				1.24
Takoma Park	do				.08						.12		.30						.23			.34	.25			T.			.14				1.46
Taneytown	Potomac			.08						.24		.20	.68					.27	.75		.05	.14	.95						.52				3.88
Towson	Coast	T.		.09	.05		T.			T.	.15	*	.54					T.	.29		.04	.42	.20						.47				2.20
Van Bibber	do																																
Westernport	Potomac			.21						.19		.65						.26			.08	.14	.26		.05				.48				2.32
Woodstock	Coast			.07	.02					.15	T.	.05	.42					.02	.68		.12	.30	.07						.29				2.19
Delaware.																																	
Delaware City	Coast			T.	.19	T.	T.			.06		T.	.20						T.		T.	.12	T.					T.					0.57
Dover	do			.13						T.		.20							1.24			T.	*	.27			T.						1.84
Milford	do	.25		.07			T.			.18	.04		.68						.23			.16	.18						.12				1.91
Millsboro	do	.10		.24			T.		.20	.03		.15	.81					.08	.04			.14							.03				1.82
Seaford	do	.10		.05			T.			.28			.18						.26		T.	.05	.19					T.	.05				1.16
District of Columbia.																																	
Washington	Coast			.07			T.		T.	.13		.29	.24					.20			.10	.28	.06		T.			T.	.83				2.20
Virginia.																																	
Culpeper	Rappahannock			.05			.05			.04		.49						1.16			*	.41	.08					1.20					1.48
Dale Enterprise	Shenandoah			.10			T.			.08		.20	.30					.90			.22	.30	.10					T.	.60				2.80
Doswell	Coast																																
Eastville	do	.25		.10	.04		.01		T.	.35	.04	T.	.83						T.				.08		.01	.01		T.	.40				2.12
Fredericksburg	Rappahannock	.01		.10			.01		.02	.06	.01	T.	.52					T.	.35		.03	.19	.03					T.	.58				1.91
Lincoln	Potomac			.13			T.					.75						.84				.50	.20						.60				3.02
Mount Weather	do			.02		T.	.01		T.	.12		.30	.13					.83			.22	.31	.10		T.			.02	.39				2.45
Nokesville	do																																
Quantico	do			.02						.10		*	.64						.40		.20	.50							.98				2.84
Shenandoah	Shenandoah			.03			T.			.04		.11	.42					.62	.43		T.	.23	T.						.53				2.48
Staunton	do			T.					T.	.08		.78						1.10			.42	.10	T.		T.			.03	.67				3.18
Stephens City	Potomac									.11	.05	T.	.63					.11	.51			.26	.15										1.82
Warsaw	Rappahannock	.20			.30			.10		.10	.22		.45						.70			.07							.10				2.24
Woodstock	Shenandoah									.06	.06	.30	.47					.25	.37		.03	.26	.16		.01				.35				2.32

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 1, North Atlantic States.*

Date.	Maine.												Concord, N. H.		Massachusetts.								Providence, R. I.		Connecticut.			
	Eastport.		Greenville.		Orono.		Presque Isle.		Portland.		Rumford Falls.				Amherst.		Boston.		Middleboro.		Nantucket.				Cream Hill.		Hartford.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min
1...	27	18	20	0	27	10	29	16	.....	.....	30	8	32	14	32	18	34	23	32	25	37	30	33	23	37	13	34	22
2...	31	16	27	6	37	7	34	18	.....	.....	34	17	35	19	35	14	38	22	38	19	33	28	38	20	38	15	40	23
3...	29	20	20	9	37	14	32	24	.....	.....	24	22	29	24	36	21	39	30	40	18	43	28	40	27	35	22	39	27
4...	29	24	26	15	27	22	31	24	.....	.....	30	18	33	17	37	18	34	28	40	30	43	30	40	27	33	24	37	26
5...	28	20	27	11	28	19	32	15	.....	.....	32	8	31	7	28	16	35	19	34	15	36	25	33	19	32	15	32	18
6...	20	7	12	− 7	26	− 2	16	− 2	.....	.....	8	− 6	12	− 7	18	− 5	20	− 3	28	11	25	9	19	− 2	15	− 5	18	− 5
7...	16	2	− 1	−13	15	− 9	15	− 3	.....	.....	6	−10	7	− 7	11	− 6	17	− 3	17	− 4	17	3	16	− 4	8	−13	12	− 6
8...	29	− 2	25	− 9	31	− 8	33	7	.....	.....	34	0	36	− 2	37	7	42	11	38	6	38	14	42	9	30	1	41	11
9...	40	28	37	15	43	12	39	24	.....	.....	42	13	46	10	39	26	45	34	43	29	46	35	40	31	36	20	36	30
10...	40	15	33	7	44	29	36	15	.....	.....	34	11	38	16	38	18	41	22	46	30	46	28	44	21	32	19	39	20
11...	21	7	18	− 5	33	2	23	8	.....	.....	20	4	22	5	22	8	26	16	30	13	28	20	25	14	20	5	22	13
12...	32	21	20	2	22	9	26	16	.....	.....	22	12	27	15	30	16	36	26	39	22	51	27	36	21	30	15	32	18
13...	26	16	15	9	23	13	27	16	.....	.....	22	15	26	16	26	12	30	20	33	20	32	26	30	19	25	4	30	18
14...	27	12	22	4	29	7	32	12	.....	.....	30	2	32	0	33	15	34	20	33	17	32	25	33	19	31	12	34	18
15...	35	15	26	6	34	6	38	19	.....	.....	30	5	39	11	39	20	42	27	43	24	42	30	42	26	40	19	43	28
16...	41	12	36	4	32	11	40	16	.....	.....	38	12	55	26	52	34	60	36	56	34	47	37	60	35	48	31	57	35
17...	23	10	22	6	26	11	27	14	.....	.....	20	14	26	16	34	19	41	28	51	30	44	35	40	28	33	29	35	22
18...	23	11	15	5	21	9	29	9	.....	.....	24	10	24	14	24	8	33	16	34	21	49	23	33	14	32	12	30	14
19...	19	6	16	− 5	22	−14	24	4	.....	.....	20	− 3	25	− 5	26	− 1	28	12	28	9	28	17	28	10	22	2	26	11
20...	34	16	31	5	35	− 6	34	12	.....	.....	31	−10	39	− 1	36	4	42	20	40	9	38	24	37	19	32	10	37	17
21...	44	34	40	18	34	25	49	30	.....	.....	42	30	51	30	54	31	56	36	56	29	49	38	57	37	47	28	54	32
22...	38	17	34	13	42	21	41	20	.....	.....	36	22	39	24	38	20	45	27	51	31	40	33	42	30	36	27	43	26
23...	28	12	22	10	31	12	31	15	.....	.....	28	12	29	15	26	10	33	19	36	24	41	22	37	17	27	10	34	16
24...	19	7	19	− 4	29	−12	21	8	.....	.....	19	− 2	21	− 2	27	2	24	12	27	10	29	20	25	11	18	2	23	10
25...	18	5	16	−24	23	−23	21	1	.....	.....	20	−10	21	−14	26	− 4	24	9	24	12	27	21	22	8	20	− 1	23	5
26...	33	7	22	−15	27	−21	32	2	.....	.....	27	−12	32	−12	34	− 7	36	11	34	3	37	19	36	7	28	2	35	5
27...	44	33	40	21	42	18	48	32	.....	.....	46	29	52	30	47	34	58	36	56	30	50	37	55	36	44	28	52	34
28...	43	37	40	35	45	37	48	40	.....	.....	41	36	56	41	48	39	57	42	52	46	47	42	56	42	49	44	54	46
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	29.9	15.2	24.3	4.2	31.2	7.1	31.7	14.7	.....	.....	28.2	8.8	32.7	10.7	33.3	13.8	37.5	21.3	38.5	20.5	38.4	25.9	37.1	20.1	31.5	13.9	35.4	19.1

Date.	New Haven, Conn.		New York.												Pennsylvania.												Asbury Park, N. J.	
			Addison.		Albany.		Binghamton.		Cooperstown.		Indian Lake.		New York.		Clearfield.		Everett.		Harrisburg.		Philadelphia.		Scranton.		Wellsboro.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	35	25	34	16	26	22	27	15	22	− 2	29	−18	34	24	34	18	29	20	33	25	37	29	28	18	31	15	40	32
2...	40	26	49	5	32	11	40	13	32	10	28	− 2	41	28	52	6	47	7	43	24	44	29	44	18	48	1	42	24
3...	45	31	36	23	30	25	40	21	26	20	33	18	45	34	43	26	44	26	36	28	46	33	43	24	40	28	40	30
4...	36	28	39	9	31	16	34	17	28	14	35	12	39	28	39	14	40	20	42	28	41	31	38	22	37	12	40	27
5...	33	21	33	17	29	16	26	12	21	12	28	5	33	22	34	19	37	22	38	22	38	26	32	15	34	18	35	28
6...	21	− 3	17	− 2	16	− 7	12	− 2	12	−12	9	−10	22	3	20	1	24	3	22	3	26	6	15	− 2	20	− 2	30	12
7...	16	− 4	21	− 8	11	−10	15	− 5	6	−14	14	−22	20	2	21	− 5	27	2	24	2	23	5	19	− 4	22	− 8	16	1
8...	41	16	44	14	34	5	40	8	34	2	37	− 2	40	20	44	1	45	11	40	19	43	21	43	16	42	8	44	15
9...	37	32	42	23	41	27	42	32	43	24	39	15	40	33	41	28	43	25	38	28	40	32	46	26	40	26	38	32
10...	40	22	36	22	40	16	34	14	36	14	38	11	38	27	39	20	40	23	36	24	41	31	36	18	37	20	50	31
11...	26	15	22	11	17	7	21	7	18	− 5	20	−29	27	18	24	− 2	27	9	26	17	31	22	23	11	24	− 2	33	20
12...	34	22	30	14	27	13	23	14	24	11	24	6	34	26	28	15	29	15	33	19	37	29	28	14	27	12	32	20
13...	31	20	31	16	29	12	25	16	24	14	21	7	31	22	27	12	28	16	31	19	34	23	28	20	29	17	35	23
14...	35	21	37	15	35	12	31	15	30	15	25	9	35	22	35	15	40	23	37	18	38	23	35	19	33	15	35	20
15...	41	30	41	27	37	21	42	30	38	20	33	14	43	33	40	28	45	31	41	32	46	36	44	32	41	25	43	30
16...	54	36	48	28	46	27	48	20	42	22	45	25	49	41	49	31	55	36	47	38	60	43	49	27	46	30	60	36
17...	37	26	28	15	27	11	20	18	22	12	30	8	42	32	32	19	37	28	38	27	45	33	32	21	32	15	50	32
18...	34	15	25	13	21	9	18	5	16	6	15	5	37	19	22	9	32	13	34	16	46	23	29	14	22	11	55	23
19...	26	11	32	−10	23	− 2	25	− 2	18	− 1	20	−17	27	15	34	−12	30	8	28	12	32	17	26	9	29	−11	27	13
20...	38	19	39	2	34	4	38	14	34	8	34	−12	40	23	46	− 1	33	9	32	16	41	24	38	10	36	6	36	20
21...	55	38	43	23	44	33	46	36	40	32	40	23	47	40	41	32	41	32	37	32	53	38	42	38	47	29	54	35
22...	44	27	37	28	38	17	36	14	36	21	36	16	43	32	38	20	42	32	44	32	54	37	38	24	40	24	52	36
23...	38	19	28	8	25	13	27	5	21	8	22	8	39	19	30	13	36	18	36	20	42	24	32	10	29	10	50	27
24...	25	12	25	−14	20	2	17	− 5	14	− 5	15	−21	25	15	28	− 5	27	10	25	13	28	18	18	6	20	−10	27	17
25...	26	9	27	−18	21	− 8	19	− 8	13	− 6	19	−28	26	16	30	− 6	29	10	24	13	29	17	19	4	27	−17	26	11
26...	36	10	35	− 3	35	− 6	37	2	32	− 8	27	−23	40	22	40	8	40	15	39	18	42	21	37	11	35	− 1	38	21
27...	52	36	49	32	46	35	50	37	44	30	43	21	56	38	41	28	55	34	53	36	64	37	51	37	47	30	48	34
28...	51	44	47	37	48	38	54	38	46	34	49	33	59	49	38	30	55	34	52	45	61	53	52	44	48	27	45	40
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	36.7	21.6	34.8	12.2	30.8	12.4	31.7	13.6	27.6	9.9	28.9	1.9	37.6	25.1	35.4	12.9	37.8	19.0	36 0	22.4	41.5	27.2	34.5	17.9	34.4	11.7	40.0	24.6

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 1*—Continued.

Date.	New Jersey.								Martinsburg, W. Va.		Maryland.								Washington, D. C.		Milleboro, Del.		Virginia.					
	Atlantic City.		Hightstown.		Newton.		Phillipsburg.				Baltimore.		Darlington.		Frederick.		Westernport.						Culpeper.		Fredericksburg.		Staunton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	36	27	35	23	39	13	33	24	35	23	35	27	34	23	35	25	35	21	36	27	35	27	35	20	39	14	38	4
2...	48	24	44	22	43	18	43	23	44	17	50	29	44	21	44	25	57	22	48	23	50	21	42	12	56	39	51	16
3...	42	37	47	27	36	21	38	26	42	19	44	33	41	26	40	29	46	31	46	33	54	32	40	32	52	31	46	30
4...	40	28	40	26	40	20	40	25	43	26	44	30	39	25	44	28	41	24	46	28	44	29	44	25	49	31	44	24
5...	37	24	35	27	32	20	35	20	37	26	39	26	39	25	39	25	38	28	40	25	43	28	40	26	47	27	41	20
6...	24	5	29	13	20	2	20	0	20	17	26	9	29	11	25	8	30	11	25	9	33	12	33	16	41	18	21	19
7...	24	3	20	2	18	− 6	19	− 1	32	6	27	8	23	1	23	7	34	5	30	8	27	5	30	7	36	8	40	8
8...	38	24	46	14	39	9	40	13	45	7	48	23	41	2	40	19	49	16	48	24	47	17	42	17	48	19	47	12
9...	45	31	39	32	40	19	35	23	45	9	41	31	39	24	37	28	42	29	40	30	54	31	36	29	38	30	44	30
10...	44	27	40	30	36	23	37	23	35	28	40	30	37	27	39	29	44	24	39	27	54	25	37	23	44	24	39	26
11...	34	23	31	16	25	5	23	12	26	19	30	23	31	16	29	19	29	15	28	22	33	18	33	16	33	11	26	17
12...	38	32	35	20	33	12	34	20	34	17	38	27	35	19	36	20	29	15	41	24	45	31	40	21	45	24	37	16
13...	33	24	34	20	30	17	31	19	32	19	32	21	32	17	33	20	28	16	34	22	35	24	37	16	40	19	34	12
14...	38	24	37	16	38	15	38	18	42	21	43	25	37	16	44	18	42	21	45	24	44	22	42	20	46	19	42	17
15...	46	36	40	26	40	20	41	27	44	26	47	37	42	32	40	33	48	34	53	36	58	35	49	31	60	36	55	34
16...	48	38	53	35	47	34	46	35	58	36	67	43	61	38	59	34	54	35	68	44	66	45	61	38	69	48	62	42
17...	46	36	48	30	39	19	36	25	37	34	45	35	50	32	41	32	42	32	48	36	70	51	49	34	62	42	55	44
18...	48	22	32	23	32	15	34	16	27	19	41	21	38	21	36	21	34	17	39	20	60	24	41	22	42	26	44	22
19...	28	16	31	13	27	3	28	9	32	13	31	18	30	12	34	16	36	12	36	16	34	17	33	14	35	14	31	11
20...	42	23	44	14	36	3	38	9	33	13	38	22	35	15	32	17	37	14	36	17	45	18	31	15	32	14	40	14
21...	49	40	54	33	48	30	42	34	40	16	49	37	53	33	39	32	50	19	43	33	55	32	41	30	44	31	52	21
22...	55	36	48	33	38	29	41	28	51	32	55	37	53	33	52	33	45	36	55	36	56	38	54	35	60	38	51	36
23...	44	23	43	27	33	16	35	16	37	29	41	26	43	25	40	26	38	25	40	26	49	26	48	28	51	29	48	35
24...	26	20	30	15	23	2	25	10	31	20	29	22	27	18	30	20	34	19	29	23	27	23	33	23	34	25	35	22
25...	30	17	28	13	30	1	27	11	31	15	32	18	28	14	30	16	34	13	31	19	32	20	33	18	37	19	36	17
26...	41	22	45	13	39	2	43	13	49	15	42	24	42	18	44	20	50	19	43	24	45	15	44	16	47	17	47	21
27...	46	40	63	32	46	33	51	35	58	21	64	37	60	35	58	35	61	44	63	35	65	32	53	34	66	32	58	24
28...	49	42	61	49	50	40	51	43	55	31	63	52	66	48	58	49	59	40	65	56	73	36	60	48	73	58	59	47
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	40.0	26.6	40.4	23.0	35.6	15.5	35.9	19.8	39.1	20.5	42.2	27.5	40.3	22.4	39.3	24.4	41.6	22.8	42.7	26.7	47.6	26.2	41.5	23.8	47.4	26.5	43.7	23.0

Climatological Data for February, 1910.

DISTRICT No. 2, SOUTH ATLANTIC AND EAST GULF STATES.

CHARLES F. VON HERRMANN, District Editor.

GENERAL SUMMARY.

In the Gulf States the advent of spring is usually so rapid that high temperatures begin to be registered before the close of February; during the past 20 years, however, the month has often been characterized by extreme degrees of cold and an unusual frequency of sleet or snow, creating a popular impression that February has become the severest winter month. At Atlanta, for example, the lowest temperature ever recorded was −8.5° in February, 1899, and the largest amount of unmelted snow was 11.6 inches in February, 1895; the average snowfall for 10 years with appreciable snow is only 2.5 inches for January as compared with 4.3 inches for February. It is probable that the coldest weather in a century occurred during the memorable cold wave of February 12–13, 1899, when the temperature fell below zero as far south as northern Florida.

The month of February, 1910, was milder than either December or January in all States in the district, except South Carolina and Mississippi, where it was slightly colder than January. The frequency of rain and the continuous though moderate degree of cold made the month unfavorable for agricultural interests and for every kind of outdoor occupation.

The periods of fair weather were of short duration, one storm area following another in rapid succession. The first period of general rains occurred on the 3d to 4th, and accompanied a moderate barometric depression that moved across the Ohio Valley. Another moderate storm appeared in western Texas on the 8th and moved northeastward to the Ohio Valley on the 9th, with general rains throughout the district and thunderstorms at a few places. The third atmospheric disturbance appeared in Texas on the 10th and moved eastward to the mouth of the Mississippi River by the morning of the 11th with a pressure of 29.78 inches at Mobile; thence the storm moved northeastward to the vicinity of New York, the barometer falling to 29.45 inches on the morning of the 12th. The lowest atmospheric pressure for the month was registered in all portions of the district on the 11th, except at Richmond, Va., where the minimum for the district, 29.55 inches, occurred on the morning of the 12th. This disturbance was accompanied by general rains with excessive amounts at several stations and much sleet, snow, and ice in portions of South Carolina, northern Georgia, Alabama, and Mississippi. Subsequently the atmospheric pressure rose considerably, reaching the maximum for the month in all the Gulf States, and accompanied by the lowest temperatures experienced during the month throughout the district.

On February 16 a disturbance appeared over southern Texas which moved to the mouth of the Mississippi River by the morning of the 17th, with a secondary depression between Birmingham and Knoxville. General rains occurred throughout the district and heavy local downpours fell at many places in Alabama and Georgia. As most of the district lay on the southeast side of the depression on the 17th, the weather became quite warm and thunderstorms occurred at a large number of stations. The highest temperatures for the month were attained in the northern part of the district on the 17th. A very marked cold wave followed, the fall in temperature ranging from 20° to 40° or more, with minimum temperatures below freezing to the Gulf coast. On February 24 a very shallow depression moved from the Gulf of Mexico to southern Georgia accompanied by sleet and severe local thunderstorms with heavy rains at many places. The area of high atmospheric pressure following on the 26th gave the maximum pressure for the month, 30.7 inches at Lynchburg, Va. The last storm for the month was central near Memphis on the morning of the 27th, with a slight secondary disturbance over southern Alabama, and was accompanied by heavy rains and severe local thunderstorms. Very high temperatures began to be recorded toward the close of February, reaching 90° in Florida.

TEMPERATURE.

The average temperature for the month, as a rule, was moderately below normal over most of the district, except in eastern Virginia and North Carolina, where the departures were positive with a maximum excess of 2.5° at Norfolk, Va.; the excess in this section was sufficient to bring the State averages for Virginia and North Carolina somewhat above the normal. Elsewhere the State averages were somewhat below normal with the largest departure in Mississippi. The deficiencies at most stations ranged between 1° and 3°, exceeding 4° at only a few isolated points in Mississippi, central Alabama, western Florida, and northern Georgia. The month as a whole was characterized by continuously low temperatures, with comparatively few warm periods and those of very short duration. The extreme minimum temperatures, however, were not so low as have frequently occurred in February, notably in 1895, 1899, and 1905. The monthly mean temperature for February was below freezing at only one station in the district, namely at Hot Springs, Va., mean 30 3°. At a majority of stations in Florida the monthly means ranged between 50° and 65°, along the Gulf coast from 50° to 55°, and in the interior from 36° to 50°. The highest monthly mean was 69.0° at Key West, Fla.

During the first decade the temperature was below normal with the exception of brief periods of warmth about the 2d to 3d and 8th to 9th (in Florida 7th to 12th), the lowest for the month occurring in eastern Virginia and North Carolina on the 7th. During the second decade a period of decidedly colder weather prevailed from the 11th to 14th (in Florida 12th to 15th), the daily deficiencies on several days reaching as much as 20° at a few places. The minimum temperatures for the month generally occurred on the 13th or 14th, reaching 3° at Lenoir, N. C., 15° at Anderson, S. C., 8° at Clayton, Ga., and Hamilton, Ala., and 9° at Booneville, Miss. The lowest temperature in Florida was 20° at Johnstown. A marked period of warmer weather prevailed from the 16th to 17th during which maximum temperatures of from 70° to 80° were registered throughout the district. A severe cold wave followed immediately with unusually rapid changes of temperature from the morning of the 17th to the morning of the 18th. The changes in temperature at several stations were as follows (7 a. m. 17th to 7 a. m. 18th, central time): Atlanta, from 56° to 22°; Birmingham, 62° to 18°; Charlotte, 54° to 16°; Mobile, 66° to 28°; and Montgomery, 62° to 24°. The cold wave did not reach the immediate south Atlantic coast although the weather remained quite cold until the 20th. Decidedly warmer weather prevailed from the 21st to 23d, especially in Alabama. The last two days of February were very warm and maximum temperatures above 80° occurred in Georgia and Alabama. The highest temperature in Georgia was 83° on the 27th at Valdosta. The maximum for the district was 90° at Plant City, Fla., on the 23d.

Killing frost occurred as late as February 25 as far south as the Gulf coast and in Florida.

PRECIPITATION.

Although the State averages indicate that the rainfall was moderately below the normal in all States in the district, except South Carolina, with a maximum deficiency of over 1 inch in Virginia, nevertheless the monthly total rainfall was quite large in several portions of the district. Areas in which the total rainfall for the month was from 6 to 8 inches are found in the

eastern portions of North and South Carolina between Newbern, N. C. and Effingham, S. C.; here the largest amounts were: Effingham, 9.39 inches, and Southport at the mouth of the Cape Fear River, 8.80 inches. Also along the east Gulf coast from Apalachicola with 8.10 inches west to Biloxi, Miss., with 8.49 inches. In the interior a region of maximum rainfall stretched roughly from central Alabama through central-northern Georgia. The largest amount for the district was 9.72 inches at Molino, in the extreme western portion of Florida. Molino and Effingham are the only stations that received as much as 9 inches during the month.

The regions of least rainfall with amounts ranging from 1 inch to 3 inches lay in southern and eastern Florida, in southeastern Georgia, in the central and northern portions of North Carolina, and in Virginia. No monthly totals of less than 2 inches were reported in South Carolina, Georgia, Alabama, or Mississippi, and comparatively few places in other sections received under 2 inches. The minimum for the district was 0.70 inch at Miami, Fla.

Considerable amounts of snow fell in the mountainous districts of Virginia and North Carolina, as well as in the northern portions of the Gulf States from the 11th to 12th and on the 17th. The largest monthly snowfall was 9.3 inches at Marion in western North Carolina. The greatest amount in 24 hours, 8.8 inches on the 11–12th, also occurred at that station. The largest amount in Virginia was 7.8 inches at Randolph. In South Carolina, Georgia, and the Gulf States the average snowfall was only a few tenths of an inch; the largest monthly amounts were respectively: South Carolina, 4.0 inches at Liberty; Georgia, 3.0 inches at Clayton and Dahlonega; Alabama, 3.0 inches at Hamilton; and Mississippi, 5.0 inches at Booneville. Flurries of snow were observed at Pensacola and Blountsville, Fla., on February 13.

In Virginia the heaviest rains fell on the 11th, 17–18th, and 28th. On the 17–18th more than an inch fell over the headwaters of the James River, which cleared the ground of the last traces of snow and caused a moderate rise in the rivers. In North Carolina the heavy precipitation on the 11th occurred as snow in the western portion, as sleet in the central, and as rain in the eastern districts. Severe local storms occurred on the 17th, and after that date rain fell at intervals of a day or less to the close of the month. The maximum 24-hourly amounts in North Carolina were: On the 11th, Newbern, 2.53 inches; Southport, 3.95, and Wilmington, 2.58; on the 28th, Settle, 3.25 inches, and Statesville, 2.90. In South Carolina the heaviest rains fell on the 23d–24th, the maximum amount in 24 hours for the district being 4.23 inches at Columbia, S. C., on that date. The sleet storm of the 11th was quite destructive in the western portions of South Carolina, especially in Greenville and Pickens counties. The heaviest rains were: On the 24th, Aiken, 3.00 inches; Batesburg, 3.07; Dillon, 2.54; and Effingham, 2.59. Heavy rains fell on the 17th, 24th, and 28th in Georgia, with severe local storms and damage to property in some sections on the 17th and 28th. The sleet storm of the 11–12th covered the region from Atlanta northward and caused some damage chiefly to telegraph and telephone lines. The heaviest rains in Georgia were: On the 17th, Statesboro, 2.50 inches; West Point, 2.56 inches; on the 24th, Douglas, 2.77; Harrison, 3.85, and Waynesboro, 2.70 inches; on the 28th, Barnesville, 2.62, and Elberton, 2.60 inches. In Florida, cloudy, unsettled weather with frequent rains continued from the 17th to the close of the month. Very few stations in that State reported large amounts, viz: Hypoluxo, 2.55 inches on the 8th; Molino, 2.72 inches on the 21st, and Milligan, 2.71 on the 28th.

Although the average number of days with rain was about normal in Alabama and Mississippi the predominance of cloudy, unsettled weather caused a considerable deficiency in the amount of sunshine. The heaviest 24-hourly rains were: In Alabama on the 17th, Auburn, 2.60 inches; Highland Home, 3.00; Tuskegee, 3.00; in Mississippi on the 17th, Fulton, 2.84 inches; and Okolone, 2.75 inches, and on the 27th, Biloxi, 3.63 inches. Light sleet fell over nearly the entire State of Mississippi on the 17th.

RIVER CONDITIONS.

A considerable increase in the volume of water in all the rivers in the district took place during February; the minimum stages at all points were higher than in January and in many cases the maximum stages also, but there were no dangerous floods in any section. At Weldon, N. C., the Roanoke River rose from 12.4 feet on the 18th to 23.9 feet on the 20th, and then fell rapidly. The Lynch River in South Carolina rose steadily during the closing days of the month to flood stages early in March. The swamps of the Congaree below Columbia, S. C., and on the Wateree, below Camden, were overflowed after the heavy rains of the 23d–24th. Warnings were issued by the official at Columbia which were of great value, as all cattle were removed from the grazing lands that were flooded.

At the end of February moderately high stages occurred in the rivers of Georgia for which warnings were issued in every case. The Savannah River at Augusta rose to a maximum stage of 24.3 feet on the 25th (flood stage 32 feet); the Ocmulgee at Macon reached 16.3 feet (flood stage 18 feet), and the Oconee at Milledgeville 20.2 feet (flood stage 25 feet). Heavy rains on February 28 caused moderate floods in both the Ocmulgee and Oconee rivers early in March. The heavy local rainfall of nearly 5.50 inches on February 28, at Jackson, Ga., caused much damage to the power plant of the Central Georgia Power Company. The entire coffer dam and the trestles above and below the dam were washed away, causing damage estimated at nearly $100,000, and delaying construction work considerably. A number of country bridges were carried away. The Chattahoochee and Flint rivers in western Georgia reached only moderately high stages. In Alabama and Mississippi river conditions were not greatly different from the normal.

MISCELLANEOUS PHENOMENA.

The average number of clear days in the district was 12, of partly cloudy days 6, and cloudy days 10. The amount of cloudiness was least in Virginia and North Carolina, while in the southern portions of the district there was a considerable deficiency in the amount of sunshine. The prevailing winds were from the west to southwest in the three northern States, north to northwest in the Gulf States, and northeast in Florida. The wind movement was large; the average hourly velocity for the month reached 20 miles at Hatteras and 17 miles at Pensacola. Hatteras, N. C., is proverbially a point where mariners encounter the most dangerous gales, and the highest wind velocities at that station are always a matter of much interest. The record of velocities exceeding 40 miles at Hatteras for February is as follows: On the 1st 50 miles from the southwest; 11th, 42 miles from the south; on the 24th a dangerous northeast storm prevailed with a velocity of 60 miles an hour, and on the following day 52 miles from the north was registered. At Charleston, S. C., the maximum wind was 46 miles from the east on the 24th; at Atlanta, 48 miles from the northwest on the 17th; at Savannah, 48 miles from the west on the 18th; and Pensacola reported 60 miles an hour from the south on the 17th. Dense fogs were of frequent occurrence during February; it is noticeable that fog formed only on days when the temperature was above the normal. The most frequent dates were the 3d, 8th and 9th, 20th, 21st and 22d, 28th and 29th. The average number of days with rain was uniformly about 9 throughout the district; low temperatures prevented the drying out of the soil and roads were very heavy during the month.

TABLE 1.—*Climatological data for February, 1910. District No. 2, South Atlantic and east Gulf States.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Virginia.																				
Arvonia	Buckingham	350	6	36.8	+ 2.3	74	17	9	7	31	2.92	− 0.34	0.95	5.8	11	13	5	10	n.	Rev. Plummer F. Jones
Ashlan‖¶	Hanover	²21	19																	E. L. C. Scott.
Buchanan	Botetourt	²20	6								1.55		0.71	4.5	7					D. D. Booze.
Callaville	Brunswick	250	16	39.4		72	17	8	7	31	2.75		0.85	4.0	9	11	11	6	w.	F. M. Gage.
Cape Henry	Princess Anne	20	36	42.4	+ 1.2	74	17	15	7	32	2.25	− 1.52	0.96	5.7	12	14	2	12	nw.	U. S. Weather Bureau.
Catawba	Roanoke	1,760																		State Sanitarium.
Charlottsville	Albemarle	800	21	35.8	+ 0.3	66	17	7	7	31	3.64	+ 0.50	1.48	3.5	8	11	4	13	s.	Leander McCormick.
Clarksville	Mecklenburg		16								2.48		0.52		8					J. Henry Ligon.
Columbia‖	Fluvanna	246	12	36.8		72	28	10	7	36	2.67		0.65	5.0	11	16	3	9	sw.	Chesapeake & Ohio R. R.
Danville	Pittaylvania	413	10								2.06		0.62	4.7	7					C. G. Watkins.
Diamond Springs	Princess Anne	20		42.3		76	28	14	7	33	2.55		1.03	7.5	11	11	8	9		Virginia Experiment Sta.
Hampton	Elizabeth City	5	27	41.9	+ 0.9	78	17	13	7	34	1.67	− 2.15	0.65	3.5	9	18	3	7	ne.	Hampton Institute.
Hot Springs	Bath	2,195	18	30.3	+ 0.6	58	16†	5	7	35	2.04	− 1.36	0.61	6.0	6	16	4	8		James P. Scott.
Ivor	Southampton	87	1	41.6		75	17	9	7	34										N. & W. Ry., Exp. Farm.
Lassiter	Goochland	100									2.74		0.78	1.0	10	17	3	8		T. J. Davis.
Lexington‖	Rockbridge	1,060	33	33.6	− 1.3	62	17	9	6	41	2.71	− 0.49	0.99	3.8	8	15	4	9		Virginia Military Institute.
Lynchburg	Campbell	685	39	36.8	− 1.8	65	16	15	7	35	3.58	+ 0.08	1.36	2.7	11	12	6	10	nw.	U. S. Weather Bureau.
New Castle	Craig	1,300	1								1.34		0.74		6					Miss J. L. Martin.
Newport News‖	Warwick	55	7	41.0		72	28	12	7	33	2.89		1.26	4.8	12	14	7	7	nw.	Ernest W. Sniffen.
Norfolk	Norfolk	91	40	43.2	+ 2.5	76	28	13	7	32	2.16	− 1.24	0.91	4.5	12	13	10	5	s.	U. S. Weather Bureau.
Petersburg	Dinwiddie	60	23	41.3	+ 3.2	75	17†	11	7	35	1.72	− 2.08		1.0	8				n.	Central State Hospital.
Randolph	Charlotte	334	6								2.48		0.62	7.8	9					W. B. Spencer.
Richmond	Henrico	144	31	39.3	− 0.6	75	28	10	7	33	2.38	− 0.72	1.35	0.7	10	7	13	8	sw.	U. S. Weather Bureau.
Rocky Mount	Franklin	1,150	16	35.2		60	16†	9	19†	40	3.42	− 0.28	0.88	5.0	13					G. W. B. Hale.
Saxe	Charlotte	350	7	39.1		77	27	9	7	44	2.48		0.70	3.5	9				nw.	State Experiment Farm.
Spottsville (near)	Surry	15	22	40.8	+ 3.1	75	17	9	7	36	2.18	− 2.22	0.77	1.8	10	16	3	9	sw.	B. W. Jones.
Williamsburg	James City	70	19	41.0	+ 0.6	75	17	10	7	32	2.00	− 1.35	0.70	5.0	9	16	5	7	sw.	Eastern State Hospital.
North Carolina.																				
Beaufort	Carteret	10	8	46.4		67	28	21	7	28	5.22		1.60	0.0	13	12	5	11	s.	H. D. Aller.
Belhaven	Beaufort	4	1	45.4		76	28	11	7	36	4.79		1.98	0.3	9	16	3	9	w.	W. S. Hopkins.
Brewers	Wilkes	1,950	13	37.3	+ 1.1	67	23	9	19	43	4.58	0.00	1.18	6.0	13	11	4	13	w.	W. L. Brewer.
Caroleen	Rutherford	806	10	39.4°	− 1.3	68°	23	10°	13	35°	4.94	− 0.70	2.00	2.5	10	13	3	12	nw.	S. B. Tanner.
Chalybeate Springs	Harnett	500	4	42.4		75	17	11	7	40	3.36		1.02	0.0	9	17	2	9	sw.	J. A. Smith.
Chapel Hill	Orange	500	52	41.5	− 1.5	72	17†	15	7	38	3.34	− 0.78	0.96	0.5	12	18	3	7	w.	Prof. A. H. Patterson.
Charlotte	Mecklenburg	773	34	41.2	− 2.9	69	28	17	13	28	3.59	− 0.80	1.04	0.2	10	14	1	13	ne.	U. S. Weather Bureau.
Chimney Rock	Rutherford	1,150		41.2		69	25	15	19	39	5.02		1.50	8.0	9	17	0	11	w.	Dr. L. B. Mouse.
Clinton	Sampson	156	3	45.8		75	28	19	7	38	6.57		1.54	T.	11	16	6	6	n.	W. T. Boyette.
Durham (near)	Durham	406	1								2.73		1.07		9					Supt. Durham Water Co.
Eagletown	Northampton	66	5	43.2		75	28	12	7	34	2.96		0.77	1.7	15	13	10	5	sw.	J. T. Elliott.
Edenton	Chowan	30	16	43.8	+ 2.9	78	17	11	7	36	3.87	− 0.99	1.70	0.7	8	11	6	11	s.	E. R. Conger.
Fayetteville	Cumberland	170	23	44.4	+ 1.0	78	17	16	7	37	3.96	− 0.67	1.02	1.5	9					Frank Glover.
Goldsboro	Wayne	102	40	44.9	+ 0.3	75	28	17	7	38	5.33	+ 1.43	1.24		13				w.	Mrs. N. B. Taylor.
Graham	Alamance	656	8								2.41		0.80	3.1	9					Dr. W. R. Goley.
Greensboro	Guilford	843	29	42.8‖	+ 2.0	78‖	16	12‖	19	44‖										A. R. Horry.
Greenville	Pitt	75	17								3.54	+ 0.23	1.25	1.0	10					C. V. York.
Hatteras	Dare	11	36	46.8	+ 0.2	66	17	18	7	29	2.60	− 1.88	1.01	0.4	14	9	10	9	sw.	U. S. Weather Bureau.
Henderson	Vance	490	17	38.8	+ 0.6	71	28	15	7	41	2.10	− 2.72	0.69	0.5	9	15	6	7	nw.	Enoch Powell.
Kinston	Lenoir	46	12																	D. T. Edwards.
Lenoir	Caldwell	1,186	37	36.8	− 4.2	66	23	3	14	44	4.18	− 0.11	1.26	6.5	11	17	2	9	w.	G. M. Goforth.
Lexington	Davidson	810	9	39.4		67	17†	10	14	35	2.64		1.10	5.0	9	14	6	8	nw.	H. R. Berrier.
Lincolnton	Lincoln	994	5																	L. B. Thompson.
Louisburg	Franklin	375	19	41.9	+ 2.8	72	28	12	7	34	2.40	− 2.07	0.70	0.2	7	17	4	7	nw.	T. B. Wilder.
Lumberton	Robeson	102	27	43.6	+ 2.4	77	17	17	7	42	5.35	+ 0.43	1.60	0.5	9				sw.	B. M. Davis.
Manteo	Dare	12	5	43.6		69	16	15	7	28	3.08		1.10	0.0	9	16	7	5	s.	U. S. Weather Bureau.
Marion	McDowell	1,425	18	38.2	− 1.4	70	22	5	14	46	4.15	− 1.03	0.99	9.3	14	14	4	10	e.	Sgt. Thomas McGuire.
Moncure	Chatham	145	16	43.4	+ 3.4	74	17	12	7	49	3.23	− 1.05	1.21	0.0	10	16	2	10	nw.	B. J. Utley.
Monroe	Union	586	16	42.4	+ 1.5	74	28	15	7	33	3.88	− 0.88	1.02		8	16	1	11	sw.	T. A. Ashcraft.
Morganton	Burke	1,135	23	38.9	− 0.9	66	23	13	1†	39	4.49	− 0.36	1.30	7.8	11	17	1	10	ne.	H. D. Judd.
Mt. Airy	Surry	1,048	22	35.9	− 2.0	63	22	11	19	39	4.58	+ 0.80	1.60	7.4	11	17	1	10	ne.	Prof. A. H. Merritt.
Mt. Holly	Gaston	616	13								2.75	− 1.52	0.92	2.0	9					J. W. Holland.
Nashville	Nash	190	6	42.1		77	17	11	7	35	3.03		0.98	0.2	11	13	4	11	nw.	J. B. Boddie.
Newbern	Craven	12	28	46.0	+ 0.2	77	28	15	7	43	6.25	+ 1.44	2.53	T.	8				nw.	J. B. Hill.
Pinehurst‖	Moore	650	6	42.8°		74°	17†	17°	7	32°	4.15		1.25		6	17	0	11	e.	General Office.
Pittsboro	Chatham	480	19																	B. M. Poe.
Raleigh	Wake	390	39	41.6	− 1.7	74	17	18	7	31	2.80	− 1.54	0.76	T.	12	15	4	9	sw.	U. S. Weather Bureau.
Ramseur	Randolph	442	3	39.8°		72°	28	11°	14	41°	1.72		0.62	1.0	5	12	8	8	n.	P. P. Turner.
Randleman	....do	810	5								2.87		0.95	T.	10					J. R. Walton.
Reidsville	Rockingham	828	11	39.2	+ 1.5	70	28	15	7†	37	2.54	− 1.38	0.82	5.0	8	15	2	11	ne.	E. M. Redd.
Rockhouse	Macon	3,100	18																	Berry C. Hawkins.
Rockingham	Richmond	210	15	43.8‖	+ 0.9	74‖	28	17‖	14	40‖	6.13	+ 1.36	2.30		10					H. S. Ledbetter.
Roxboro	Person	600	12																	T. C. Bradsher.
Salem	Forsythe	1,000	15	38.2	− 0.1	67	17†	12	14	38	3.62	− 1.20	1.00		7					Rev. H. E. Rondthaler.
Salisbury	Rowan	760	26	41.1	− 0.7	70	28	17	7†	35	2.92	− 1.33	1.10	3.0	9	9	3	16	n.	Miss Thelma Wilkinson
Saxon	Stokes	900	18	37.1	− 0.3	68	28	10	14	36	3.91	− 0.19	1.88	4.5	9	13	2	13	sw.	R. P. McAnnaly.
Scotland Neck	Halifax	80	6	42.8		72	17†	12	7	33	3.04		0.48	1.5	12	14	1	13	sw.	J. Y. Savage.
Selma	Johnston	225	20	43.2	+ 1.6	74	17	17	7	38	5.95	+ 1.29	1.10		9					Dr. R. J. Noble.
Settle	Iredell	700	14	38.4	+ 0.5	66	23	10	13	34	5.49	+ 1.28	3.25	4.5	7	15	3	10	ne.	C. H. Smith.
Sloan	Duplin	50	17	46.4	+ 2.5	75	28	17	7	40	6.75	+ 2.04	2.03	0.0	8	14	3	11	n.	D. M. Sholar.
Snow Hill	Greene	80	5	44.4		75	28	11	7	38	5.79		1.77	1.0	14	11	6	11	n.	Levi J. H. Mewborn.
Southern Pines	Moore	519	20	44.0	− 0.8	74	28	19	7†	32	4.00	− 0.58	0.90	T.	9	17	4	7	nw.	Mrs. P. H. Beck.
Southport	Brunswick	18	55	47.0	− 1.8	66	23†	19	7	29	8.80	+ 5.13	3.95	0.0	11	13	4	11	sw.	Mrs. Charles E. Taylor.
Statesville	Iredell	950	22	40.2	+ 0.8	66	22	12	7†	42	5.68	+ 1.08	2.90	4.0	9	8	10	10	sw.	D. M. Thompson.
Tarboro	Edgecombe	50	25	43.2	+ 0.9	77	28	14	7	39	3.38	− 0.85	0.85	0.5	11	13	4	11	nw.	E. V. Zoeller.
Troy	Montgomery	800	1	41.5‖		71‖	28	17‖	10†	40‖	3.50		1.11	0.0	11	17	1	10		Mrs. O. B. Deaton.
Weldon	Halifax	81	38	40.0	− 1.1	75	17	13	7†	47	2.28	− 1.46	1.13	1.8	10				s.	H. S. S. Cooper.
Whiteville	Columbus	59	5	46.3		76	17†	18	7	40	7.15		2.77		12	13	6	9	sw.	Rev. C. C. Smith.
Willard	Pender	51	2	46.6		75	28	14	7	39	7.45		2.19	0.5	11	16	0	12	n.	J. H. Jeffries.
Wilmington	New Hanover	52	39	47.3	− 0.4	73	23	22	7	29	6.61	+ 3.22	2.58	0.0	10	9	8	11	sw.	U. S. Weather Bureau.
Yanceyville	Caswell	690		41.2		70	17	14	7	39	2.23		0.78	3.0	6	15	0	13	sw.	A. Y. Kerr.
South Carolina.																				
Aiken	Aiken	565	26	45.4	− 3.5	75	27	20	13	39	5.79	+ 1.58	3.00	0.0	8	16	5	7	nw.	Dr. Huger T. Hall.
Allendale	Barnwell	186	22	47.8	− 0.2	76	23	24	13	36	4.85	+ 0.70	2.40	0.0	5	9	9	10		A. R. Hiers.
Anderson	Anderson	764	9	40.8	− 2.6	70	23	15	13	33	5.94	+ 0.34	2.42	0.0	12	13	3	12	w.	H. H. Russell.
Batesburg	Lexington	656	22	42.7	− 1.8	70	23	21	13	34	7.72	+ 1.88	3.07	0.0	11	17	1	10	n.	E. J. Hite.
Beaufort	Beaufort	20	24	48.5	− 3.2	68	22†	29	1	28	3.63	− 0.03	2.00	0.0	12	11	13	4	ne.	Miss E. G. Rice.
Blackville	Barnwell	296	22	47.0	+ 0.3	79	27	22	12	42	4.64	− 0.01	1.80	0.0	13	8	9	11	nw.	Miss M. E. Lange.
Blairs	Fairfield	293	9								4.30		1.18	0.0	8	14	5	9	n.	John R. Ragsdale.

TABLE 1.—*Climatological data for February, 1910. District No. 2,*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
South Carolina—Cont'd.																				
Bowman	Orangeburg	160	5	46.9	.....	73	28	18	14	40	4.36	.....	1.78	0.0	9	16	6	6	w.	B. O. Evans.
Calhoun Falls	Abbeville	508	17	.....	.....	.....	.....	.....	.....	.....	5.86	+ 0.52	1.40	0.0	11	13	0	15	nw.	P. J. Pfiefer.
Camden	Kershaw	222	44	.....	.....	.....	.....	.....	.....	.....	3.98	− 0.01	0.90	0.0	12	15	4	9	w.	W. C. Brown.
Catawba	York	562	5	.....	.....	.....	.....	.....	.....	.....	4.08	.....	1.22	0.0	10	15	5	8	ne.	Jas. C. Faris.
Chappells	Newberry	402	5	.....	.....	.....	.....	.....	.....	.....	4.62	.....	1.10	0.0	11	10	4	14	w.	W. R. Zimmerman.
Charleston	Charleston	48	40	49.4	− 2.3	74	22	29	13	25	3.64	+ 0.23	1.13	0.0	12	9	8	11	sw.	U. S. Weather Bureau.
Cheraw	Chesterfield	144	22	43.2	− 1.4	76	28	18	7	36	5.18	+ 0.52	1.63	1.5	11	12	6	10	n.	J. H. Powe.
Clemson College	Oconee	850	19	40.6	− 1.4	66	23	17	7	33	3.22	− 2.48	1.56	3.0	5	17	1	10	s.	Prof. John N. Hook.
Columbia	Richland	351	23	45.4	− 2.4	74	28	21	13	28	6.98	+ 2.39	4.23	0.0	9	9	8	11	ne.	U. S. Weather Bureau.
Conway	Horry	25	18	46.6	+ 0.3	76	17	22	5†	38	6.19	+ 1.58	2.02	0.0	9	11	1	16	sw.	P. C. Quattlebaum.
Darlington	Darlington	175	15	43.5	.....	76	17†	17	7	38	4.72	0.00	1.10	T.	12	16	1	10	.....	D. C. McCall.
Dillon	Marion	100	6	47.9[b]	+ 3.5	79[b]	17	22[b]	13	39[b]	5.56	+ 0.52	2.54	0.0	10	.....	.....	.....	.....	A. E. Rowell.
Effingham	Florence	106	18	.....	.....	.....	.....	.....	.....	.....	9.39	+ 4.09	2.50	0.0	8	15	2	11	nw.	H. B. McCall.
Ferguson	Berkeley	51	2	.....	.....	.....	.....	.....	.....	.....	3.10	.....	1.23	0.0	5	9	3	13	n.	Pierre Gaillard.
Florence	Florence	136	22	45.5	+ 0.4	76	16	21	14	49	5.57	+ 0.85	1.97	0.0	6	12	10	6	n.	H. K. Gilbert.
Georgetown	Georgetown	12	17	49.7	+ 1.5	74	17	25	7	32	4.74	+ 0.53	1.66	0.0	7	7	13	8	w.	Wm. Alden James.
Greenville	Greenville	989	18	41.4	+ 1.9	71	23	15	13	44	4.07	− 1.40	2.24	0.3	9	14	2	12	nw.	Mrs. S. A. Crittenden.
Greenwood	Greenwood	671	22	40.2	− 1.6	68	16†	19	13†	38	4.25	− 0.84	1.02	0.0	10	13	0	15	w.	M. M. Calhoun.
Heath Springs	Lancaster	568	9	42.1	.....	70	17†	18	13	28	4.00	.....	1.05	0.0	9	15	1	12	n.	J. A. Weaner.
Jacksonboro	Colleton	13	2	48.2[b]	.....	71[b]	28	21[b]	1†	34[b]	3.38[b]	.....	1.40[b]	0.0	6[b]	9[b]	6[b]	11[b]	sw.	W. E. Haskell, jr.
Kingstree	Williamsburg	54	22	46.6	− 1.7	70	9†	23	2†	40	4.94	+ 0.58	1.65	0.0	8	12	3	13	ne.	A. O. Matthews.
Liberty	Pickens	900	16	41.2	− 0.5	68	17	15	13	31	5.38	+ 0.08	1.85	4.0	10	15	2	11	w.	Jno. T. Boggs.
Little Mountain	Newberry	711	17	44.6	− 0.9	73	23†	18	13	36	4.10	− 1.01	1.40	0.0	10	13	6	9	w.	Dr. J. M. Sease.
Newberry	...do	502	6	43.2	− 0.2	73	28	19	13	33	4.43	− 1.12	1.00	T.	12	8	7	13	sw.	W. G. Peterson.
Pelzer	Anderson	873	5	.....	.....	.....	.....	.....	.....	.....	3.12	.....	1.10	1.0	11	14	3	11	w.	John M. Ward.
Pinopolis	Berkeley	55	17	.....	.....	.....	.....	.....	.....	.....	4.97	+ 1.49	2.00	0.0	7	11	7	10	ne.	Miss E. P. Ravenel.
St. George	Dorchester	109	22	47.3	+ 0.4	75	28	22	14	34	2.80	− 1.40	1.10	0.0	4	14	0	14	.....	G. F. Lewis.
St. Matthews	Calhoun	209	22	43.0	− 2.7	73	17†	20	13	36	4.45	− 0.72	1.12	0.0	12	14	0	14	.....	J. S. Wannamaker.
Saluda	Saluda	530	8	45.0	.....	75	23	20	13	40	4.32	.....	1.30	0.0	12	15	2	11	w.	Alvin Etheridge.
Santuc	Union	512	15	42.1	− 0.1	71	28	18	13	36	4.03	− 1.12	1.18	0.0	13	11	6	11	s.	E. W. Jeter.
Smith Mills	Williamsburg	62	15	.....	.....	.....	.....	.....	.....	.....	5.67	+ 1.04	2.18	0.0	7	10	0	18	w.	W. G. Walker.
Society Hill	Darlington	192	19	42.8	− 1.6	73	28	20	6	36	5.97	+ 1.06	1.69	0.0	11	13	6	9	ne.	J. J. Lucas.
Spartanburg	Spartanburg	875	19	39.0	− 3.5	73	23	16	13	41	2.83	− 2.09	1.10	1.0	7	16	0	12	.....	F. P. Robinson.
Summerville	Dorchester	75	13	49.1	+ 1.0	76	22	22	14	36	4.48	+ 0.22	1.80	0.0	11	8	13	7	sw.	Miss E. H. Gadsen.
Trenton	Edgefield	620	17	43.2	− 2.7	75	23	18	13	40	5.60	− 0.37	2.23	0.0	10	13	6	9	s.	C. A. Long.
Trial	Berkeley	85	23	46.9	− 1.0	77	27	20	14	34	4.05	− 0.05	1.70	0.0	9	8	9	11	ne.	Etsell Gaillard.
Walhalla	Oconee	1,061	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. L. Fant.
Walterboro	Colleton	69	6	47.4[a]	.....	76[a]	16†	23[a]	2†	39[a]	3.70	.....	1.93	0.0	6	12	7	7	.....	J. A. Westerberg.
Winnsboro	Fairfield	545	21	43.4	− 2.1	72	17†	20	8	36	3.87	− 0.81	0.80	0.0	8	15	4	9	e.	John W. Seigler.
Winthrop College	York	690	11	42.8	+ 0.7	72	28	16	13	39	4.02	− 0.35	0.81	T.	11	16	1	11	sw.	E. R. Rivers.
Yemassee	Hampton	23	15	46.6	− 1.8	74	17†	23	14	43	4.41	+ 0.47	1.94	0.0	10	11	1	16	.....	J. G. Hutson.
Georgia.																				
Abbeville	Wilcox	.....	7	.....	.....	.....	.....	.....	.....	.....	2.98	.....	0.80	0.0	10	13	0	15	e.	W. H. Calhoun.
Adairsville	Bartow	772	18	40.7	− 0.5	69	17	16	13	37	4.00	− 1.19	1.66	0.8	7	12	7	9	.....	Dr. J. P. Bowdoin.
Albany	Dougherty	230	25	50.0	− 0.2	79	27	24	14	42	5.61	+ 0.08	1.82	0.0	12	10	5	13	nw.	Geo. C. Brosnan.
Allapaha	Berrien	293	21	51.5	+ 1.0	80	27	23	14	40	4.33	+ 0.06	1.60	0.0	7	6	6	16	e.	James T. Austin.
Americus	Sumter	362	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. D. Reese.
Athens	Clarke	694	33	39.9	− 4.2	67	23	18	13	33	5.42	+ 0.08	1.65	0.0	12	14	2	12	w.	C. D. Cox.
Atlanta	Fulton	1,218	45	42.0	− 3.1	68	23	16	13	37	4.13	− 0.92	1.14	T.	10	10	5	13	nw.	U. S. Weather Bureau.
Augusta	Richmond	180	44	46.3	− 3.8	74	28	22	13	30	5.21	+ 0.75	2.43	0.0	12	9	5	14	nw.	U. S. Weather Bureau.
Bainbridge	Decatur	119	18	50.8	− 0.3	80	27	21	14	45	5.14	− 0.09	1.24	0.0	10	10	3	15	n.	Mrs. C. O. Wimberley.
Barnesville	Pike	875	2	46.0	.....	71	22†	18	13	34	7.22	.....	2.62	0.0	7	11	6	11	sw.	Prof. T. O. Galloway.
Blakely	Early	300	19	51.2	− 0.5	80	27	22	14	43	3.65	− 2.71	1.04	0.0	7	7	8	13	n.	Ralph M. Hobbs.
Brunswick	Glynn	14	12	.....	.....	.....	.....	.....	.....	.....	4.46	+ 1.84	1.50	0.0	9	.....	.....	.....	.....	J. B. High.
Butler	Taylor	650	8	.....	.....	.....	.....	.....	.....	.....	5.11	.....	1.46	0.0	7	15	0	13	s.	Mrs. Mamie F. Wallace.
Camak	Warren	613	17	42.8[a]	− 0.1	76[a]	22	17	13	46[a]	4.31	− 1.01	1.20	0.0	7	9	14	5	.....	J. A. Chapman.
Canton	Cherokee	894	17	.....	.....	.....	.....	.....	.....	.....	2.96	− 2.49	0.95	0.1	6	11	1	16	e.	J. M. McAfee.
Carlton	Madison	357	11	.....	.....	.....	.....	.....	.....	.....	5.64	− 0.36	1.86	0.0	10	14	1	13	w.	M. C. Power.
Carrollton	Carroll	.....	13	45.0	− 0.5	72	27	14	13	40	5.37	+ 0.65	1.14	0.0	12	9	11	8	se.	J. T. Folk.
Clayton	Rabun	2,100	17	39.5	0.0	69	23	8	13	39	5.87	− 0.86	1.71	3.0	8	14	2	12	e.	A. J. Duncan.
Columbus	Muscogee	262	23	47.4	− 0.8	77	27	23	14	43	6.41	+ 0.38	2.02	0.0	10	13	4	11	nw.	A. J. Land.
Covington	Newton	800	17	.....	.....	.....	.....	.....	.....	.....	4.78	− 1.08	1.50	T.	10	14	2	12	ne.	Rufus Cruse.
Cuthbert	Randolph	446	11	50.1	− 1.1	78	26†	24	13	42	5.19	.....	1.70	0.0	7	9	7	12	.....	Prof. W. McMichael.
Dahlonega	Lumpkin	1,519	18	40.7	− 0.2	69	23	14	13	31	4.93	− 1.09	1.78	3.0	11	7	11	10	nw.	Prof. B. P. Gailliard.
Diamond	Gilmer	2,020	29	40.9[a]	+ 0.3	66[a]	23	14[a]	13†	40[a]	4.28	− 3.34	1.58	T.	10	11	4	13	.....	R. A. Kimsey.
Douglass	Coffee	500	3	51.2	.....	79	27	27	2†	38	5.45	.....	2.77	0.0	14	5	15	8	e.	Prof. C. W. Davis.
Dublin	Laurens	452	16	.....	.....	.....	.....	.....	.....	.....	3.94	− 1.98	1.40	0.0	7	8	4	16	nw.	Mrs. M. E. Martin.
Dudley	...do	.....	8	49.0	.....	75	27	23	14	40	3.48	.....	1.00	0.0	7	10	7	11	sw.	J. H. M. O. Sullivan.
Eastman	Dodge	361	19	49.4	+ 2.3	77	27	24	13	38	4.77	− 0.38	1.84	0.0	8	9	1	18	nw.	Miss A. M. Bohannon.
Eatonton	Putnam	.....	7	44.8	.....	75	23	17	13	37	5.73	.....	1.94	0.0	9	.....	.....	.....	.....	Prof. W. C. Wright.
Elberton	Elbert	710	19	43.8	− 0.2	74	23	16	13	38	8.13	+ 2.61	2.60	0.0	8	11	7	10	w.	H. A. Roebuck.
Experiment	Spalding	946	10	44.0	+ 0.4	69	23†	15	13	37	6.67	+ 0.62	1.65	0.0	8	11	8	9	.....	Martin V. Calvin.
Fort Gaines	Clay	166	23	47.8	− 0.9	76	27	20	14	43	5.15	− 1.33	1.70	0.0	7	11	1	16	n.	Mrs. Eva T. Graham.
Gainesville	Hall	1,254	34	.....	.....	64	23	15	13	28	2.78	− 3.28	0.98	2.0	10	14	0	14	w.	W. C. Walker.
Gillsville	...do	1,052	20	42.1	− 2.3	70	23	15	13	34	4.76	− 0.74	1.79	2.0	10	13	5	10	w.	J. W. Casey.
Glennville	Tatnall	.....	5	51.0[b]	.....	78[b]	28	26[a]	14†	32[a]	3.64	.....	0.89	0.0	11	14	6	8	nw.	Wm. C. Barnard.
Gore	Chattooga	.....	12	42.0	+ 2.5	67	16	14	13	37	4.47	− 0.52	1.82	0.6	9	14	1	13	se.	H. M. Ponder.
Greensboro	Greene	598	8	42.9	.....	72	27	19	13	37	6.64	.....	1.98	0.0	10	12	6	10	w.	R. L. Caldwell.
Griffin	Spalding	975	21	43.2	0.0	72	23	15	13	34	5.27	− 1.02	1.30	0.0	10	10	5	13	nw.	V. P. Enloe.
Harrison	Washington	245	12	46.8	+ 0.3	76	27	20	13†	36	7.67	+ 2.00	3.85	0.0	9	16	10	2	nw.	A. W. J. Wood.
Hartwell	Hart	838	2	42.4	.....	72	22	11	13	38	4.72	.....	2.00	T.	10	12	4	12	s.	Dr. W. I. Hailey.
Hawkinsville	Pulaski	235	15	48.1[b]	+ 1.5	78[b]	27	20[b]	13	45[b]	2.30	− 2.95	0.52	0.0	6	8	5	15	nw.	R. H. Wood.
Helena	Telfair	260	3	50.3	.....	78	27	24	14	38	4.50	.....	1.89	0.0	11	4	7	17	w.	James D. Smith.
LaFayette	Walker	871	4	39.6	.....	66	28	14	13	40	4.91	.....	1.67	1.3	9	13	4	11	w.	Ralph A. Snow.
Lisbon	Lincoln	.....	4	44.4	.....	75	16	19	7	42	5.86	.....	2.25	0.0	12	10	3	15	sw.	B. J. DuBose.
Lost Mountain	Cobb	.....	10	41.4	0.0	69	27†	15	13	37	5.65	− 0.20	1.87	T.	8	1	20	7	e.	A. N. Mayes.
Louisville	Jefferson	259	18	47.6	− 1.0	74	27	23	13	30	5.65	+ 0.77	2.26	0.0	6	16	5	7	.....	J. C. Little.
Lumber City	Telfair	.....	2	.....	.....	.....	.....	.....	.....	.....	3.35	.....	1.12	0.0	10	9	6	13	e.	Walter A. Hilton.
Lumpkin	Stewart	650	17	49.5	+ 0.2	77	27	23	13	33	5.22	− 1.41	1.22	0.0	7	9	10	9	nw.	A. W. Latimer.
Macon	Bibb	370	33	46.4	− 1.8	74	27	22	13	34	4.43	+ 0.03	1.15	0.0	7	11	4	13	ne.	U. S. Weather Bureau.
Marshallville	Macon	500	18	47.6	− 0.8	72	22†	21	14†	41	6.05	+ 0.11	1.90	9.0	6	7	8	13	e.	E. C. Bryan.
Mauzy	Colquitt	.....	12	52.5[b]	+ 0.5	80[b]	27	22[b]	14	41[b]	5.35	+ 0.62	1.80	0.0	9	.....	.....	.....	.....	T. J. Hudson.
Milledgeville	Baldwin	276	22	45.5	− 2.7	75	27†	20	14	36	4.71	− 0.46	1.12	0.0	11	12	3	13	nw.	Prof. O. M. Cone.
Millen	Jenkins	158	23	46.7	− 2.0	78	27	22	15	47	4.32	− 0.46	2.00	0.0	7	12	0	16	nw.	M. G. McComb.
Montezuma	Macon	292	5	.....	.....	.....	.....	.....	.....	.....	3.82	.....	1.14	0.0	7	9	6	13	ne.	W. N. Drewry.
Monticello	Jasper	800	14	44.6	− 2.1	75	23	18	13	36	6.11	+ 0.84	1.90	0.0	11	17	0	11	.....	Miss Maude C. Penn.
Morgan	Calhoun	337	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. Beck.

TABLE 1.—*Climatological data for February, 1910. District No. 2*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Georgia—Cont'd.																				
Newnan	Cowets	950	22	43.4	+ 1.4	72	23	15	13	43	5.04	− 1.53	2.00	0.0	11	12	1	15	nw.	Mrs. I. J. Milner.
Oakdale	Fulton	810	10	.....	.....	.....	.....	.....	.....	.....	4.94	− 0.76	1.50	0.0	8	14	0	14	w.	W. R. B. Whittier.
Point Peter	Oglethorpe	1,000	21	43.6	+ 0.6	71	23†	17	13	40	8.43	+ 2.86	2.32	0.0	8	14	4	10	w.	C. M. Witcher.
Poulan	Worth	365	19	49.4	− 1.1	79	27	20	14	42	4.92	− 0.55	1.46	0.0	10	11	2	15	.....	Dr. J. F. Wilson.
Putnam	Marion	.....	11	48.7[b]	+ 1.3	75[b]	22†	21[b]	13	42[b]	4.25	− 2.48	1.40	0.0	6	.....	.....	.....	.....	Mrs. J. M. Collum.
Quitman	Brooks	173	26	52.0	− 1.7	80	27	24	2	41	4.14	− 0.27	1.12	0.0	8	16	0	12	nw.	A. B. Jones.
Ramsey	Murray	1,363	17	43.8	+ 0.4	67	16	16	13	32	4.28	− 0.77	1.55	1.0	8	12	2	14	s.	D. E. Humphreys.
Resaca	Gordon	657	17	.....	.....	.....	.....	.....	.....	.....	4.52	− 0.86	1.70	0.0	8	9	5	14	n.	D. A. Norton.
Rome	Floyd	576	55	41.5	− 4.5	70	16	15	13	45	4.58	+ 0.02	1.75	0.5	11	11	3	14	se.	W. M. Towers.
St. George	Charlton	.....	4	55.4[b]	.....	82[d]	28	20[d]	5	46[d]	2.04	.....	0.40	0.0	12	.....	.....	.....	.....	A. N. Lund.
St. Marys	Camden	20	19	53.1	− 1.6	79	9	23	2	41	2.64	− 0.83	0.52	0.0	9	7	12	9	ne.	David C. Sterling.
Savannah	Chatham	65	60	50.8	− 3.0	73	9	30	13†	25	3.13	+ 0.12	1.39	0.0	11	9	4	15	s.	U. S. Weather Bureau.
Statesboro	Bulloch	253	10	49.2	− 0.4	79	27	25	2†	38	5.52	+ 1.52	2.50	0.0	8	7	15	6	.....	J. C. Cromley.
Talbotton	Talbot	750	17	48.2	+ 1.8	75	17†	20	13	41	7.37	+ 1.29	2.15	0.0	7	13	5	10	e.	Dr. E. L. Bardwell.
Tallapoosa	Haralson	1,150	18	46.4	.....	70	16†	22	1	35	2.33	− 2.56	2.00	0.0	3	18	0	10	se.	R. M. Strickland.
Thomasville	Thomas	273	27	51.0	− 2.9	79	27	24	14	36	5.50	+ 0.82	1.36	0.0	12	8	7	13	s.	U. S. Weather Bureau.
Toccoa	Stephens	1,050	25	39.4	− 3.1	72	23	13	13	40	2.89	− 2.70	1.47	0.0	9	15	0	13	w.	E. A. Newton.
Valdosta	Lowndes	219	5	51.8	.....	83	27	21	14	44	2.52	.....	1.12	0.0	7	12	3	13	e.	Miss Annie L. Twitty.
Valona	McIntosh	10	10	52.0	+ 0.6	78	27	20	1	45	2.28	− 1.51	0.75	0.0	5	17	7	4	nw.	J. M. Atwood.
Washington	Wilkes	630	23	42.1	− 0.3	72	23	18	13	37	5.46	− 0.27	1.92	0.0	11	14	4	10	ne.	Miss Ella B. Smith.
Waycross	Ware	131	21	51.2	− 0.1	80	17†	24	2†	44	2.76	− 1.02	0.70	0.0	12	10	6	12	se.	Thomas Sasser.
Waynesboro	Burke	86	19	46.5	− 0.1	74	28	22	12	39	4.76	+ 0.47	2.70	0.0	6	15	6	7	e.	Mrs. H. W. Blount.
West Point	Troup	620	22	44.2	− 1.4	73	27	21	13†	39	7.51	+ 0.15	2.36	0.0	11	12	1	15	n.	E. N. Dunn.
Woodbury	Meriwether	641	10	45.8[a]	.....	72[a]	26	13[a]	13	41[a]	6.46	+ 0.03	1.92	0.0	7	.....	.....	.....	sw.	G. A. Wright.
Florida.																				
Apalachicola‖	Franklin	24	6	53.8	.....	73	22	32	14	27	8.10	.....	1.22	0.0	11	11	6	11	se.	G. H. Whiteside.
Arcadia	De Soto	61	9	62.7	.....	88	23†	30	6	39	1.45	.....	0.63	0.0	7	21	3	4	e.	C. S. Bushnell.
Archer	Alachua	92	24	57.6	− 1.0	86	28	25	14	41	2.44	− 1.15	0.75	0.0	7	10	15	3	.....	R. B. Hodgson.
Avon Park	De Soto	150	12	62.6	− 0.4	87	28	31	6	38	1.98	− 0.92	1.56	0.0	6	18	7	3	nw.	O. R. Thacher.
Bartow	Polk	115	14	60.2	− 2.0	88	24	27	14	42	2.79	+ 0.01	1.23	0.0	9	10	13	5	ne.	Wm. Hood.
Blountstown	Calhoun	.....	2	52.4	.....	78	27	25	5†	40	6.70	.....	1.98	T.	5	5	3	20	s.	C. L. Hobbs.
Bonifay	Holmes	111	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Rush.
Brooksville	Hernando	126	16	59.2	− 0.4	86	23†	31	14	38	4.25	+ 0.86	1.30	0.0	5	13	6	9	ne.	C. C. Peck.
Carrabelle	Franklin	16	11	.....	.....	.....	.....	.....	.....	.....	4.15	+ 0.15	1.20	0.0	5	.....	.....	.....	.....	J. J. Blomquist.
Cedar Keys	Levy	10	12	56.0	− 4.2	78	27	32	13	24	1.45	− 1.51	0.43	0.0	7	16	4	8	nw.	J. B. Lutterloh.
Clermont	Lake	105	17	60.8	− 1.2	85	22	34	14	34	3.76	+ 0.36	2.30	0.0	3	10	15	3	se.	S. S. Fesler.
DeFuniak Springs	Walton	193	13	53.0	+ 0.4	75	16†	25	18	40	7.38	+ 0.48	1.63	0.0	11	10	6	2	sw.	R. W. Storrs.
DeLand	Volusia	27	12	59.8	+ 0.6	83	28	28	14	41	3.65	.....	0.93	0.0	11	.....	.....	.....	.....	Dr. O. B. Webster.
Eustis	Lake	56	19	59.4	− 1.4	87	28	28	14	38	3.07	− 0.08	.....	0.0	.....	16	3	9	ne.	C. T. Smith.
Federal Point	Putnam	5	17	57.7	+ 0.3	83	28	29	2	40	1.54	− 2.01	0.45	0.0	14	8	12	8	e.	E. S. Hubbard.
Fenholloway	Taylor	75	3	50.7[a]	.....	79[a]	9†	21[a]	14	43[a]	6.03	.....	1.65	0.0	6	.....	.....	.....	.....	Miss E. Wigglesworth.
Fernandina	Nassau	10	11	54.6	− 0.1	80	9	30	14	32	2.95	− 1.36	0.80	0.0	13	14	6	8	se.	W. B. C. Duryee.
Fort Meade	Polk	125	25	60.6	− 1.3	86	23†	27	14	39	2.99	+ 0.49	1.17	0.0	5	18	6	4	sw.	G. L. Broderick.
Fort Myers	Lee	12	26	63.4	− 1.2	85	28	38	6	28	1.32	− 0.95	1.10	0.0	3	25	2	1	e.	Miss M. M. Gardner.
Fort Pierce	St. Lucie	6	17	62.4	− 1.8	80	10†	31	6	36	1.18	− 1.89	0.63	0.0	4	12	9	7	se.	T. J. O'Brien.
Gainesville	Alachua	176	21	55.8	− 1.3	86	28	30	14	40	2.04	− 1.08	0.69	0.0	11	12	3	13	.....	J. P. H. Bell.
Grasmere‖	Orange	175	13	59.7	− 1.0	85	28	31	14	36	2.48	.....	1.00	0.0	7	22	1	5	.....	J. B. Escott.
Hilliard	Nassau	69	1	57.4[d]	.....	80[d]	28	32[d]	2	36[d]	2.00	.....	0.75	0.0	6	.....	.....	.....	.....	The Hilliard Co.
Huntington	Putnam	56	13	57.8	− 0.2	87	28	24	14	40	2.38	− 1.06	0.80	0.0	9	17	4	7	se.	C. E. Walker.
Hypoluxo	Palm Beach	4	12	66.0	− 0.1	85	24	38	7	32	5.03	+ 1.52	2.55	0.0	4	16	8	4	se.	G. A. Angevine.
Inverness	Citrus	43	9	57.0	.....	83	17†	30	2	40	3.79	.....	1.07	0.0	7	8	10	10	ne.	W. H. Miller.
Jacksonville	Duval	101	38	55.2	− 1.7	80	28	32	14	29	2.43	− 1.00	0.77	0.0	12	7	11	10	ne.	U. S. Weather Bureau.
Jasper	Hamilton	152	9	53.8	.....	86[a]	27	23	14	47	3.81	− 0.36	1.25	0.0	5	.....	.....	.....	.....	G. W. Duncan.
Johnstown	Bradford	125	11	55.6	− 0.1	82	27	30	14	42	2.31	− 1.80	0.78	0.0	11	10	12	6	se.	A. M. C. Brasch.
Jupiter	Palm Beach	34	22	65.0	− 1.3	81	24	40	6	25	2.33	− 0.72	0.76	0.0	8	66	10	12	s.	U. S. Weather Bureau.
Key West	Monroe	14	39	69.0	− 1.8	81	27	52	14	15	0.83	− 0.81	0.82	0.0	2	21	6	1	e.	Do.
Kissimmee	Osceola	65	17	61.0	− 0.1	84	23	33	14	36	2.47	− 1.22	0.96	0.0	4	12	12	4	ne.	J. A. Simpson.
Lake City	Columbia	210	20	55.0	− 1.3	82	27	22	14	40	2.67	− 1.50	0.62	0.0	7	8	6	14	sw.	W. B. Knight.
Live Oak	Suwanee	109	5	53.0	.....	82	27	23	14	44	3.55	− 1.38	1.00	0.0	8	.....	.....	.....	.....	D. O. Henry.
Macclenny	Baker	125	13	55.9[a]	+ 0.3	82[a]	28	22[a]	14	42[a]	3.19	− 0.96	1.18	0.0	7	.....	.....	.....	.....	Griffing Bros. Co.
Madison	Madison	200	6	52.4	.....	82	27	26	14	39	5.31	+ 1.32	1.60	0.0	12	7	4	17	nw.	E. J. Vann.
Malabar	Brevard	24	8	62.6	.....	85	24	34	6	36	2.38	.....	0.94	0.0	10	.....	.....	.....	se.	J. F. Farley.
Manatee	Manatee	8	26	61.4	− 0.9	83	26†	37	14	30	3.46	+ 0.51	1.42	0.0	.....	8	14	6	n.	W. P. Fuller.
Mariana	Jackson	80	8	50.8[a]	.....	78[a]	27	27[a]	2†	43[a]	6.08	.....	1.07	0.0	11	7	10	11	nw.	W. J. Watson.
Meritts Island	Brevard	20	27	61.6[d]	− 2.5	78[a]	22†	38[d]	15	30[d]	1.09	− 1.53	0.36	0.0	8	.....	.....	.....	.....	C. D. Provost.
Miami	Dade	5	13	68.7	+ 0.9	86	23	40	6	30	0.70	− 1.31	0.70	0.0	1	11	15	2	se.	E. V. Blackman.
Middleburg	Clay	10	8	54.2[d]	.....	82[d]	17†	23[d]	14	42[d]	2.18	.....	0.70	0.0	5	.....	.....	.....	.....	G. A. Chalker.
Milligan	Santa Rosa	.....	.....	53.2	.....	75	22†	22	16	52	8.06	.....	2.71	0.0	11	10	11	7	nw.	W. F. Mapoles.
Molino	Escambia	49	8	51.2	.....	74	16†	23	5†	39	9.72	.....	2.72	0.0	6	10	3	15	n.	W. H. Trimmer.
Monticello	Jefferson	207	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Potter.
Mt. Pleasant	Gadsden	260	4	50.1	.....	79	27	21	14	44	6.60	.....	1.75	0.0	9	.....	.....	.....	e.	Miss A. Grubb.
Newport	Wakulla	10	9	52.6	.....	77	22	24	14	39	4.55	+ 0.79	1.50	0.0	6	17	2	9	nw.	J. M. Ladd.
New Smyrna	Volusia	9	21	60.2	+ 0.3	82	18†	34	15	34	4.01	+ 1.04	1.24	0.0	11	.....	.....	.....	.....	F. Nordman.
Ocala	Marion	98	21	58.2[b]	− 1.4	83[b]	28	24[b]	14	41[b]	3.34	+ 0.22	0.87	0.0	7	.....	.....	.....	.....	Dr. F. T. Schreiber.
Orange City	Volusia	39	16	58.6	− 1.6	84	28	27	6	46	2.85	+ 0.15	1.08	0.0	4	17	6	5	w.	J. D. Graham.
Orlando	Orange	111	18	61.7	+ 0.4	85	22	32	6	36	2.69	0.00	1.38	0.0	5	18	5	5	ne.	Jas. Thompson.
Pensacola	Escambia	149	32	52.4	− 3.1	69	3	26	18	33	6.57	+ 1.08	1.74	T.	12	9	8	11	se.	U. S. Weather Bureau.
Plant City	Hillsborough	121	16	60.6	− 0.9	90	23	29	14	42	4.36	+ 1.17	1.26	0.0	6	15	12	1	e.	E. B. Trask.
Rockledge	Brevard	28	2	61.5	.....	81	22†	36	6	32	1.85	.....	0.63	0.0	6	20	5	3	ne.	Rev. J. H. White.
Rockwell	Marion	60	8	58.2[d]	.....	84[d]	28	26[d]	14	46[d]	3.80	+ 0.40	1.45	0.0	4	.....	.....	.....	w.	Dunellon Phos. Co.
St. Andrew	Washington	14	12	53.2	+ 0.4	72	22†	26	14	29	7.55	+ 3.21	1.52	0.0	12	13	7	8	se.	W. A. Emmons.
St. Augustine	St. Johns	15	60	57.0	− 1.8	81	21	28	14	35	1.71	− 1.36	0.75	0.0	7	9	9	10	ne.	J. R. Palmer.
Sand Key	Monroe	46	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Weather Bureau.
St. Leo	Pasco	140	14	60.0	− 1.0	86	28	31	14	35	3.29	− 0.35	1.01	0.0	9	12	7	9	s.	G. Schneider.
Satsuma Heights‖	Putnam	98	2	56.6	.....	82	28	29	2†	37	2.28	.....	0.56	0.0	10	9	12	7	ne.	The Satsuma Co.
Switzerland	St. Johns	10	13	57.0[a]	+ 2.0	82[a]	28	27[a]	2	38[a]	1.26	− 2.15	.....	0.0	.....	.....	.....	.....	.....	W. C. Steele.
Tallahassee	Leon	192	23	50.7	− 4.0	75	27	29	14	32	7.06	+ 2.51	1.70	0.0	11	9	7	12	w.	W. H. Markham.
Tampa	Hillsborough	79	20	59.8	− 1.1	81	28	35	14	28	3.00	− 0.27	1.25	0.0	5	12	7	9	ne.	U. S. Weather Bureau.
Tarpon Springs	do	20	25	59.4	− 1.9	85	27	31	14	38	2.51	− 0.61	1.00	0.0	6	16	4	8	w.	A. P. Albaugh.
Titusville	Brevard	6	15	61.9	+ 0.2	84	9	34	13†	40	2.38	− 1.18	1.79	0.0	6	4	10	14	n.	F. M. Taylor.
Wausau	Washington	250	10	53.5	+ 1.1	79	28	32	5	39	5.74	+ 0.62	1.49	0.0	10	7	7	14	n.	Curtis Jones.
Alabama.																				
Alaga	Houston	105	5	.....	.....	.....	.....	.....	.....	.....	4.92	.....	1.42	0.0	7	9	7	12	nw.	James L. Willis.
Anniston	Calhoun	741	19	44.0	− 1.8	71	27	16	13	39	5.67	+ 1.02	2.26	T.	9	7	7	14	n.	U. S. Weather Bureau.
Ashville	St. Clair	685	17	43.3	+ 0.5	78	27	16	13	35	4.91	− 0.45	1.75	T.	10	13	3	12	sw.	George R. Cather.
Auburn	Lee	732	28	48.4	− 0.7	75	27	21	13	33	7.97	+ 2.25	2.60	0.0	10	9	3	16	se.	Dr. James T. Anderson.
Benton	Lowndes	149	9	.....	.....	.....	.....	.....	.....	.....	6.49	.....	1.78	0.0	9	10	6	12	e.	S. T. Pruitt.

TABLE 1.—*Climatological data for February, 1910. District No. 2*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Alabama—Cont'd.																				
Bermuda	Conecuh		23	49.4[a]	− 1.9	76	27	22[a]	14†	39[a]	5.84	− 0.29	1.73	T.	10	9	8	11	se.	M. J. Morris.
Birmingham	Jefferson	700	22	45.7	− 2.6	68	16†	18	13†	38	4.17	− 0.58	1.54	T.	10	9	5	14	se.	U. S. Weather Bureau.
Calera	Shelby	500	9	.....	.....	.....	.....	.....	.....	.....	5.87	.....	2.42	0.0	9	12	1	15	e.	L. G. Privett.
Camp Hill	Tallapoosa	738	9	47.2	.....	74	27	19	13	33	6.48	.....	1.65	0.0	6	15	5	8	sw.	Dr. Lyman Ward.
Cedar Bluff	Cherokee	594	6	.....	.....	.....	.....	.....	.....	.....	4.93	.....	1.90	0.0	5	9	17	2	.....	Joe L. Daniel.
Citronelle	Mobile	331	22	51.5	− 2.3	75	21	23	18	34	6.17	+ 0.33	1.98	0.0	14	11	13	4	nw.	George A. Maloney.
Clanton	Chilton	590	17	46.6	+ 0.4	71	22†	20	13†	33	5.60	− 0.94	1.40	T.	10	8	3	17	n.	Wallace C. Edler.
Cochrane	Pickens	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.78	.....	1.24	0.0	10	10	1	17	se.	E. L. Rose.
Cordova	Walker	334	19	43.6	− 0.7	69	15†	14	13	46	4.72	− 0.78	1.56	T.	8	13	7	8	s.	Scott Maxwell.
Cullman	Cullman	802	2	41.4	.....	66	15	12	13	41	4.46	.....	1.61	T.	10	11	4	13	se.	Eugene A. Grayot.
Dadeville	Tallapoosa	760	5	.....	.....	.....	.....	.....	.....	.....	6.43	.....	1.46	0.0	10	12	2	14	e.	Dr. W. B. Fulton.
Daphne	Baldwin	.....	19	53.0	− 0.1	74	21	24	18	31	5.97	+ 0.40	1.05	T.	10	10	3	15	nw.	John H. Young.
Demopolis	Marengo	.....	18	.....	.....	.....	.....	.....	.....	.....	5.34	− 0.74	1.40	0.0	11	12	2	14	nw.	George E. Pegram.
Eufaula	Barbour	200	26	45.6	− 3.6	73	27	22	14	38	4.62	− 1.68	1.46	0.0	11	10	6	12	s.	Dr. J. B. Whitlock.
Evergreen	Conecuh	285	26	49.7[j]	− 0.6	76[a]	17	21[j]	18	35[k]	.....	.....	.....	T.	.....	.....	.....	.....	.....	Robert L. Whitcomb.
Fayette	Fayette	350	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles W. Saunders.
Flomaton	Escambia	91	18	51.4	− 0.4	74	28	22	14	40	5.75	− 1.62	2.10	0.0	8	14	4	10	s.	T. J. Farris.
Fort Deposit	Lowndes	520	26	47.6	− 0.4	75	27	21	14†	39	6.26	+ 0.37	1.90	0.0	7	10	6	12	n.	J. F. Hattemer.
Gadsden	Etowah	621	26	44.6	+ 1.5	68	27	16	13	35	4.53	− 1.33	1.72	0.0	12	10	2	16	nw.	D. P. Goodhue.
Goodwater	Coosa	826	15	44.0[a]	+ 0.2	72[a]	27	19[a]	13	34[a]	3.85	− 2.38	0.92	0.0	9	16	0	12	n.	D. S. Brown.
Greensboro	Hale	220	31	43.0	− 5.5	71	16	20	13	41	3.84	− 1.55	1.07	0.0	9	11	3	14	nw.	W. E. W. Yerby.
Greenville	Butler	444	9	.....	.....	.....	.....	.....	.....	.....	6.34	.....	2.42	0.0	6	17	0	11	se.	E. M. Lewis.
Hamilton	Marion	.....	14	43.6[b]	+ 1.2	68[a]	26	8[b]	13	42[b]	5.49	+ 0.23	2.05	3.0	10	9	4	15	n.	Prof. H. O. Sargent.
Highland Home	Crenshaw	.....	18	49.1	− 0.4	78	28	22	18	31	6.38	+ 0.60	3.00	0.0	9	10	4	14	nw.	Prof. Samuel Jordan.
Livingston	Sumter	160	26	43.2	− 4.8	72	16†	21	1†	46	5.72	+ 0.45	1.52	0.0	7	12	0	16	e.	Robert L. King.
Lock No. 4	Talladega	510	13	44.8	+ 1.4	70	16	15	13	34	5.35	− 0.48	1.95	0.0	9	14	0	14	n.	U. S. Engineers.
Lucy	Houston	.....	5	52.6[c]	.....	80[c]	27	18[c]	14	46[c]	4.81	.....	1.30	0.0	10	5	10	13	.....	A. L. Crosby.
Maple Grove	Cherokee	.....	17	43.5[c]	+ 2.0	69[c]	16†	17[c]	12	44[c]	4.28	− 1.23	1.63	0.0	7	11	8	9	nw.	Mrs. A. L. Awbrey.
Mentone	DeKalb	1,505	3	.....	.....	.....	.....	.....	.....	.....	3.43	.....	1.26	1.0	5	13	1	14	nw.	E. Mason.
Millstead	Macon	.....	7	.....	.....	.....	.....	.....	.....	.....	5.96	.....	1.52	0.0	9	8	12	8	e.	Evie Oswalt.
Mobile	Mobile	57	38	52.4	− 0.8	75	22	26	18	33	6.40	+ 1.04	2.09	T.	13	9	8	11	n.	U. S. Weather Bureau.
Montgomery	Montgomery	240	38	48.1	− 3.2	75	27	22	18	37	6.58	+ 1.06	1.76	T.	12	10	5	13	se.	Do
Newbern	Hale	.....	17	47.5	+ 0.7	74	16	21	18†	36	4.91	− 0.62	1.25	T.	9	7	12	9	n.	Dr. J. Huggins.
Oneonta	Blount	857	16	41.8	− 1.0	65	16†	12	13	38	4.45	− 1.47	1.31	T.	13	11	1	16	n.	Aquilla J. Ketchum.
Opelika	Lee	817	31	46.3	− 1.1	75	27	20	13	32	7.50	+ 1.50	1.97	0.0	8	11	5	12	n.	A. H. Read, Jr.
Ozark	Dale	400	8	48.8	.....	73	16	23	14	35	6.70	.....	1.90	0.0	6	14	1	13	s.	Miss Lucy Sellers.
Prattville	Autauga	281	10	47.6	+ 0.3	75	27	21	14	39	5.32	.....	1.31	T.	9	10	4	14	se.	Jos. B. Bell.
Pushmataha	Choctaw	.....	19	45.9	− 2.8	75	16	19	19	38	5.38	− 1.01	1.48	0.0	10	13	1	14	nw.	E. A. Carr.
Selma	Dallas	147	30	45.8	− 3.6	73	16†	20	19	39	5.86	− 0.33	1.78	0.0	9	9	7	13	nw.	Charles F. Brislin.
Spring Hill	Mobile	312	6	52.0	.....	76	22	24	18	31	5.85	.....	2.01	T.	9	14	7	7	n.	Rev. J. B. Franckhauser.
Talladega	Talladega	554	20	46.1	+ 0.1	72	17†	17	13	40	5.83	− 0.38	2.40	0.0	8	8	11	9	nw.	Ross Bartholomew.
Tallassee	Elmore	.....	19	.....	.....	.....	.....	.....	.....	.....	7.15	+ 0.71	1.91	0.0	12	9	0	19	se.	P. A. Noble.
Thomasville	Clarke	385	19	47.0	− 1.1	73	16	18	18	42	5.12	− 0.92	1.31	0.0	9	10	3	15	n.	J. G. Forster.
Troy	Pike	581	2	49.3	.....	76	27	23	14†	36	5.18	.....	1.27	0.0	10	10	13	5	se.	C. S. Tutwiler.
Tuscaloosa	Tuscaloosa	230	29	44.0	− 0.8	71	16	19	18†	42	4.55	− 0.52	1.08	0.0	11	11	0	17	n.	W. S. Wyman.
Tuskegee	Macon	.....	10	50.6	+ 2.2	80	27	20	13	39	7.40	+ 0.82	3.00	0.0	7	6	14	8	e.	Prof. George W. Carver.
Union Springs	Bullock	216	23	47.5	− 0.9	76	27	24	13†	30	5.33	− 1.91	1.10	0.0	9	8	15	5	e.	P. L. Cowan.
Uniontown	Perry	273	24	47.4	− 1.0	74	16	21	18	35	4.56	− 1.10	1.19	0.0	10	14	9	5	nw.	F. D. Stevens.
Valley Head	DeKalb	1,031	25	39.8	− 2.0	68	22	9	13	41	4.06	− 1.55	1.51	0.5	5	12	7	9	n.	M. T. Floyd.
Wetumpka	Elmore	205	18	49.4	+ 1.8	77	27	23	14	37	5.44	− 0.40	1.05	0.0	9	10	0	18	n.	U. S. Engineers.
Mississippi.																				
Aberdeen	Monroe	210	22	42.1	+ 0.4	70	15	14	18	37	4.86	− 0.41	2.20	3.0	11	12	1	15	n.	L. D. Godfrey, jr.
Agricultural College	Oktibbeha	424	20	44.2	− 1.9	70	16†	13	18	45	3.70	− 1.82	1.80	3.0	5	11	2	15	n.	S. P. Dent.
Bay St. Louis	Hancock	28	17	52.8	0.0	77	21	25	18	31	6.24	+ 0.94	1.74	0.0	13	10	1	17	se.	Brother Stanislaus.
Biloxi	Harrison	24	19	52.8	0.0	72	28	25	18	27	8.49	+ 2.60	3.63	0.0	13	8	3	17	se.	Miss M. Josie Pope.
Booneville	Prentiss	504	16	39.4	− 3.5	64	16	9	18	30	4.71	− 0.57	1.95	5.0	10	13	9	8	n.	Dr. D. T. Price.
Brookhaven	Lincoln	500	22	46.1	− 4.7	74	21†	20	18	44	4.63	− 1.31	1.15	0.0	10	9	6	13	n.	W. J. Bee.
Columbia	Marion	110	6	.....	.....	.....	.....	.....	.....	.....	3.66	.....	1.30	T.	7	9	3	16	nw.	N. R. Drummond.
Columbus	Lowndes	191	22	42.7	− 1.8	72	15	17	19	41	3.27	− 2.51	1.40	2.1	10	8	4	16	ne.	J. B. Love.
Crystal Springs	Copiah	468	18	44.6[d]	− 3.4	72[d]	16	20[d]	18	37[a]	5.49	− 0.07	2.03	0.0	8	11	6	7	.....	D. H. Miller.
Edinburg	Leake	.....	2	45.4[a]	.....	72	16	18[a]	19	43[a]	5.40	.....	1.26	1.0	14	90	4	14	n.	J. Y. Blocker.
Enterprise	Clarke	248	5	.....	.....	.....	.....	.....	.....	.....	5.56	.....	1.30	0.0	11	6	4	18	n.	J. B. Thompson.
Fulton	Itawamba	.....	1	.....	.....	.....	.....	.....	.....	.....	6.33	.....	2.84	4.0	11	12	3	13	n.	A. L. Summers.
Hattiesburg	Forest	180	17	48.6	− 3.2	78	22	22	18†	48	5.08	− 0.80	2.10	0.0	5	6	3	19	n.	T. C. Spence.
Hazlehurst	Copiah	460	20	45.4	.....	73	16†	12	18	43	5.13	.....	1.47	T.	10	10	4	14	e.	J. D. Granberry.
Jackson	Hinds	280	23	48.2	0.0	74	1	20	18	45	4.41	− 1.12	1.29	0.0	9	10	7	11	n.	B. H. Klyce.
Lake	Scott	446	22	43.9[a]	− 2.8	71[a]	21	10[a]	18	39[b]	5.74	− 0.59	1.70	0.0	....	10	7	10	e.	J. A. Freeman.
Lake Como	Jasper	.....	7	47.2	.....	75	22	21	18†	37	.....	.....	1.34	0.0	.....	8	13	6	ne.	C. Thigpen.
Laurel	Jones	241	6	49.4	.....	77	21	21	18	37	3.85	.....	1.25	T.	10	7	8	13	ne.	Thomas W. Flynt.
Leakesville	Greene	.....	16	51.8[b]	+ 1.1	77[b]	21†	24[b]	5[b]	47[d]	5.58	− 0.78	1.68	T.	7	9	4	12	.....	Dr. Sam Pool.
Louisville	Winston	561	21	45.4	− 1.7	70	15†	16	18	41	5.09	− 0.42	2.15	4.0	9	.....	.....	.....	.....	B. T. Webster.
McNeill	Pearl River	230	7	51.6[b]	.....	75[a]	28	23[b]	18	35[c]	5.13	.....	2.10	0.0	6	9	14	4	se.	Prof. E. B. Ferris.
Macon	Noxubee	185	22	43.0	− 0.7	75	28	16	19	41	5.66	.....	2.00	0.8	10	10	1	17	nw.	Finis E. Carleton.
Magnolia	Pike	415	14	51.6	+ 1.3	77	21	21	18	41	3.46	− 2.83	1.05	T.	8	2	10	16	n.	Miss Ruby V. Roberts.
Meridian	Lauderdale	375	20	46.6	− 2.5	71	16	19	18	44	5.62	+ 0.72	1.41	T.	10	8	7	13	ne.	U. S. Weather Bureau.
Merrill	Greene	76	5	.....	.....	.....	.....	.....	.....	.....	5.95	.....	2.00	0.0	9	8	1	19	n.	L. C. Helms.
Monticello	Lawrence	209	3	49.7	.....	76	21	21	19	42	4.66	.....	1.37	0.0	9	11	7	10	n.	Dr. G. A. Teunisson.
Okolona	Chickasaw	311	22	40.0	− 3.5	68	15	12	18	41	5.75	− 0.10	2.75	3.0	10	12	3	13	n.	D. H. Shell.
Pascagoula	Jackson	15	1	51.5	.....	74	28	25	18	36	6.42	.....	1.95	0.0	9	11	2	15	n.	Tom Swartwout.
Pearlington	Hancock	10	22	52.8	− 1.6	79	21	25	18	32	3.72	− 2.22	0.83	0.0	9	7	7	14	ne.	Miss Annette Koch.
Porterville	Kemper	.....	5	46.4	.....	73	16	17	19	44	6.72	.....	1.78	0.0	7	7	12	9	nw.	I. S. Rea.
Shubuta	Clarke	197	5	.....	.....	.....	.....	.....	.....	.....	4.12	.....	1.20	0.0	10	8	3	17	n.	Geo. A. Floyd.
Waynesboro	Wayne	191	23	46.5	− 3.5	75	22	21	19	46	4.33	− 1.07	1.10	0.0	8	9	0	19	n.	R. S. Burke.
Woodland	Chickasaw	.....	1	.....	.....	.....	.....	.....	.....	.....	5.98	.....	1.92	3.0	8	.....	.....	.....	.....	Tallahatchie Drain. Com.
Louisiana.																				
Pearl River	St. Tammany	.....	4	.....	.....	.....	.....	.....	.....	.....	3.26	.....	0.94	0.0	12	9	7	12	e.	Geo. F. Bancks.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
¶ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 2, South Atlantic and east Gulf States.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Virginia.																															
Arvonia	James	T.		.04			.02		.05	.20		.25	.70					.76			.20	.09			T.			.01	.60				2.92
Ashland	do			T.			.10		.28			.20							.30		T.	T.			T.	T.		T.	.06				0.94
Buchanan[1]	do			.09						.08			.34						.71			.10	.14					T.	.09				1.55
Callaville	Chowan						T.		.38	.21		.25	.60						.34			.30	.11		.22				.34				2.75
Cape Henry	Coast	.11		.05			.02		.22	.01		.92	.04					.04	T.			.19	T.		.25			.17	.23				2.25
Catawba	Roanoke																																
Charlottesville	James			.02			T.		T.	.07		.05	.30					.50	.64		.08	.50	T.					T.	1.48				3.64
Clarkesville[1]	Roanoke	.25			.45					.34			.40						.30			.10	.12			.52							2.48
Columbia	James	.35		.20			T.		.21	T.		.10	.55					.17	.40		.09	.15	.10		T.				.47				2.67
Danville[1]	Roanoke	T.			T.					.18	T.		.62						.47		T.	.21			.02	.42			.14				2.06
Diamond Springs	Coast	.22		.06			.15			.26		1.03							.10			.02	.12		.15			.35	.09				2.55
Hampton	do	.14		.04			.05			.25		.05	.60						T.				.11	.02				.41						1.67
Hot Springs[1]	James									.05			.50						.61			.12	.48						.28				2.04
Ivor	Chowan								.37				.07										.05						.37				0.86
Lassiter	James			.05			.10		.40	.32		.22						*	.60		.05	.12	.10						.78				2.74
Lexington	do			.05					T.			.41	.15					.43	.56		.48							.01	.62				2.71
Lynchburg	do			.06					.08	.03		.21	T.					1.36	T.		.33	.19	.02		.03			.06	1.21				3.58
New Castle[1]	do									.06	.14			.74							.08	.14							.18				1.34
Newport News	Coast	.24		.05			.02		.28	.03		.83	.43					T.	.20			.12			.26			.03	.40				2.89
Norfolk	do	.15		.05			.02		.20	T.		.83	.08					.10	.01	T.	T.	.17	T.		.08			.09	.32				2.10
Petersburg	James			.10			T.		*	*		*	.94						.46						.10				.12				1.72
Randolph[1]	Roanoke	.22			.12					.42			.52						.62			.16	.10			.32							2.48
Richmond	James			.03			.01		.31	.01		.34	.06					.30			T.	.03			T.			.05	1.24				2.38
Rocky Mount	Roanoke			.05					.08	.15		*	.57					.15	.61		.06	.62	.02		.10			.13	.88				3.42
Saxe	do	.07		.14					.24	.70		.08							.55			.25			.20				.25				2.48
Spottsville (near)	Chowan			.16				.04		.33			.77					.15	.05		T.	.15			.06			.23	.24				2.18
Williamsburg	James	.30		.25			.05		.10	.45		.05	.65								.10				.05				T.				2.00
North Carolina.																															
Beaufort	Bogue Sound	.02								.16	.03	1.60	.61					.12	.53		.03	.07	.05		1.10	.80			.11				5.22
Belhaven	Pungo	.03			.13					.33			1.98					.11	.53				.30			.61		.77					4.79
Brewers	Pedee			.02					.04	.14	.01	.50			.64			.96	.17		.20	.29				.07		.38	1.18				4.58
Caroleen	Santee			.12					.08	.02		1.20						.75	.09		.40				.05			.23	2.00				4.94
Chalybeate Springs	Cape Fear			.18					.49		T.	1.02						T.	.59		.09	.34			.32			.25	.08				3.36
Chapel Hill	do			.10	.08				.25	.11		.96							.33		.09	.29	.01		.26			.06	.80				3.34
Charlotte	Santee			.12					.35	T.		1.04	T.					.77			.15	.19	.02		.04			.15	.76				3.59
Chimney Rock	do			.10						.11		.80						.05	1.50		.09	.47						.70	1.20				5.02
Clinton	Cape Fear	T.		.06					.24	.15		.94						.64		.02	.15	.28			1.54			1.30	1.25				6.57
Durham (near)[1]	Neuse			.10					.25			.61						.28			.05	.11			.14			.12	1.07				2.73
Eagletown	Chowan	.12		.12			.02		.30	.10		.45	.32					T.	.28		.09	.34	.04		.30	.12		.16	.20				2.96
Edenton	Albemarle Sound	.02		.70			.05		.20			1.70							.60						.40				.20				3.87
Fayetteville[1]	Cape Fear				.23					.18	.42		1.02						.68				.42		.08	.70			.23				3.96
Goldsboro[1]	Neuse			.06	.01					.37	.13		1.07						.73		.32	.10	.40		.10	.80		.12	1.12				5.33
Graham[1]	Cape Fear				.08					.25			.80						.70		.08	.12	.14			.15			.09				2.41
Greensboro[1]	do																																
Greenville[1]	Tar				.12					.30	.20		1.25						.10		.20		.32		.20	.20			.25				3.54
Hatteras	Pamlico Sound	.03		.04			T.		.19	.01	.01	.49	.16					.34	.12		T.	.18			.99	.02		.01	.01				2.60
Henderson	Tar			.08					.06	.19		.69						.28			T.	.06			.23			.06	.45				2.10
Kinston	Neuse																																
Lenoir	Santee			.05					.04	.06		1.20						1.00			.18	.30	.03		.06			.35	.91				4.18
Lexington	Pedee			.10					.20			1.10				.11		.55			.20	.15			.10			T.	.13				2.64
Lincolnton	Santee																																
Louisburg[1]	Tar	.02			.10		T.			.47			.70						.44							.37			.30				2.40
Lumberton[1]	Lumber					T.				.17	.06	T.	1.00						.99		T.	.10	.40		.15	1.60		T.	.88				5.35
Manteo	Roanoke Sound	.12		.10					.43			.62	.48						.42			.10			.60	.22							3.08
Marion	Santee			.02					.02	.10	.03	.70	.13					.94	.02		.17	.33	.02		.02			.66	.99				4.15
Moncure[1]	Cape Fear				.12					.56			1.21						.48		.02	11	.30		.05	.25			.13				3.23
Monroe	Pedee				.24				.50			.87	.15					T.	.87		.10	.48			.67			T.	T.				3.88
Morganton	Santee			.05					.04	.05			1.30					.52	.31		.16	.45			.15			.38	1.08				4.49
Mount Airy	Pedee			.07						.06	.09	.60						.38	.67		.26	.45			.15			.25	1.60				4.58
Mount Holly[1]	Santee				.14				.04	.20	T.		.88						.92			.25	.22			.06			.04				2.75
Nashville[1]	Tar	.10			.06					.57	.03		.98						.37		.03	.02	.25		T.	.37			.25				3.03
Newbern[1]	Neuse	T.			.05					.35	.07		2.53						.70				.45			1.67			.43				6.25
Pinehurst	Lumber			.60					.35	T.		1.25						.70			T.	.65							.60				4.15
Pittsboro	Cape Fear																																
Raleigh	Neuse			.10					.51	.03		.74	.02					.39	.01		.02	.15			.41			.22	.20				2.80
Ramseur	Cape Fear								.42			.10						.62				.40						.18					1.72
Randleman[1]	do				.09					.30	.01		.95						.80		.04	.16	.23			.12			.17				2.87
Reidsville[1]	do				.04					.19			.82						.43			.36				.43			.19				2.54
Rockhouse	Savannah	.30	.30					.37				1.50						2.30			.10	.37			.40			.30	.19				6.13
Rockingham	Pedee																																
Roxboro	Roanoke																																
Salem	Pedee								.25	.10		.75						.75				.52			.25				1.00				3.62
Salisbury[1]	do				.09					.25	.03		1.10						.70			.28	.17			.05			.25				2.92
Saxon[1]	Roanoke			.03					.04			.56						.65			.24	.19			.28			.04	1.88				3.91
Scotland Neck	Tar	.10		.15					.10	.30		.35	.46						.48		.04	.23	.13		.30				.40				3.04
Selma	Neuse								.60	.55		.35						1.10		.70		.65			1.00			.40	.60				5.95
Settle	Pedee			T.					.09	T.		.90						.57			.40				.18			.10	3.25				5.49
Sloan	Cape Fear			T.					.30	.12		1.60						.57		T.	.03	.45			2.03			1.65	T.				6.75
Snow Hill	Neuse	.01		.15					.01	.38	.46	.90	.29						.65		.04	.19	.09		.80			.05	1.77				5.79
Southern Pines	Cape Fear			.35					.70		.90	.10							.70		.05	.40				.40			.40				4.00
Southport	do			T.					T.	.78		3.95						.35	.98	.05	.28	.03			.75	.76		.08	.79				8.80
Statesville	Pedee			.07		.10			.15	T.			1.10						.58		.14	.40			T.			.24	2.90				5.68
Tarboro[1]	Tar	.02			.10					.40	.25		.85						.30		.10	.08	.40			.40			.48				3.38
Troy	Pedee			.17							.70	.75	.30						.45		.12	.40			.22			.08	.25				3.50
Weldon[1]	Roanoke	.08			.03			T.		.27	T.		1.13						.21		.01	.02	.07	T.	T.	.29			.17				2.28
Whiteville	Waccamaw			T.					T.	.23	.06	1.12	.08					T.	.50		.03	.43	.05		2.60	.17		.58	1.30				7.15
Willard	Cape Fear	.05								.39		1.75	1.04						.09	.45	.04		.55		1.97	.22			.90				7.45
Wilmington	do			T.	T.				.44	.01	T.	2.58							.72	.05	T.	.01	.04	.01	1.62			1.15					6.61
Yanceyville	Roanoke								.18	.05		.30	.55									.78			.37								2.23
South Carolina.																																	
Aiken	Edisto			.10								.95						.18	.67		.10	.45			3.00			.34					5.79
Allendale[1]	Savannah										.50								1.43		.12				2.40	.40							4.85
Anderson	do				.23				.33	.10		.55	.02					1.39	.02		.01	.50	.12		.25				2.42				5.94
Batesburg[1]	Edisto				.73					.16		.19	.95						1.54		.04	.12	.43		3.07	.16			.33				7.72
Beaufort	Ocean	.01		.22					.02	.01		.28						T.	.19	.20	.45		.02	.23	2.00			T.	T.				3.63
Blackville[1]	Edisto			.03					.01	.07	.39	.35						1.32		.05	.10	.15		1.40	.40		T.	.08	.29				4.64
Blairs[1]	Broad				.20					.42			1.10						1.18			22	.48			.60	.10						4.30
Bowman	Edisto								.27		.60	.76								.66	.15	.38			1.78			.08	.28				4.36
Calhoun Falls[1]	Savannah			.29	.68				.12	.27	.15	.11	1.13						1.40				.76		.60	.26							5.86
Camden	Wateree				.12					.20	.12	.04	.54						.90		.04	.16	.18		.80	.78		.10					3.98
Catawba[1]	Catawba				.32					.42			1.10						1.22		.02	.22	.46	T.	.18	.08			.06				4.08
Chappells[1]	Saluda				.24					.38	.16	.12	.66						1.10			.10	.58		.90	.26			.12				4.62
Charleston	Ocean			T.					.15	.01		.50						1.07	.06	.15	.02	.01		.01	.75			.85	.06				3.64
Cheraw[1]	Pedee				.06					.26	.06	T.	1.63						.97		.08	.08	.47		30	1.16				.11				5.18

TABLE 2.—*Daily precipitation for February, 1910. District No. 2*—Continued.

Stations.	River Basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
South Carolina—Cont'd																															
Clemson College	Savannah			.24								.30					.92								.20				1.56				3.22
Columbia	Congaree			.02					.05			1.10						.46			.22	.72		.42	3.81			T.	.18				6.98
Conway‖	Waccamaw			T.	T.					.31		.39	.91						.80		T.	.10	.16		.37	1.65			1.50				6.19
Darlington	Pedee				.04					.22	.05	.44	1.06	T.					.15		.05	.07	.42		1.00	1.10			.12				4.72
Dillon	Little Pedee								.30			1.19						.05	.34		.10	.27	.01		2.54			.29	.57				5.56
Effingham‖	Lynches									.62		.47	2.00						1.75				.98		.83	1.76			.98				9.39
Ferguson‖	Santee										.56			.56						1.23				.12	.83								3.10
Florence‖	Pedee				.10							.30	1.30												1.40	1.97			.50				5.57
Georgetown	Coast			T.	.10									.85					.50		.25				1.66			1.03	.35				4.74
Greenville‖	Saluda			.20					T.	.13		.03						T.	2.24			.05	.35		.20	.02			.85				4.07
Greenwood‖	...do				.22				.05	.34	.07		.72						1.02			.09	.80		.83	.11							4.25
Heath Springs	Waterce			.10					.55			1.05						.68	.41		.16				1.01			.01	.03				4.00
Jacksonboro	Combahee			T.					T.	.09		.43						T.	1.17	T.	T.	T.		T.	1.40		T.	.08	.21				3.38
Kingstree‖	Black								.40			.75							1.20		T.	.12	.14		.15	1.65			.53				4.94
Liberty	Savannah			.30					.10	.15		.40	.51					1.35			.05	.55			.04			.08	1.85				5.38
Little Mountain	Saluda			.15					.32			.75						.40			.10	.43			1.40	.17		.30	.08				4.10
Newberry	...do			.22					.36	.10		.71	.08					1.00	.20		.13	.46			.85			.20	.12				4.43
Pelzer‖	...do			.04	.20				T.	.22		.10	.40					1.10				.06	.40		.12	.06			.42				3.12
Pinopolis	Cooper								.30		.32							1.00			.15				2.00			.20	1.00				4.97
St. George‖	Edisto											.40	T.						.90						1.10	.40							2.80
St. Matthews‖	Santee			.05					.10	.25		.31	.38						1.12		.05	.12	.18		1.10	.74			.05				4.45
Saluda	Saluda			.13					.25	.03	T.	.66	T.					.77	.13		.10	.63			1.30	.02		.15	.15				4.32
Santuc	Broad			.14					.43	.03		.73	.13					.74	.44		.18	.48	.06		.17			.05	.45				4.03
Smith Mills‖	Pedee									T.			.63							1.43	.18	.21	.16			2.18			.88				5.67
Society Hill	...do								.25	.10	.32	1.23							.80		.10	.52		.62		1.69		.15	.19				5.97
Spartanburg‖	Broad				.12								.96						1.10			.15	.30			.05		T.	.15				2.83
Summerville	Ashley			.03	T.				.05	.01		.41							1.07	T.	.12	.05	.02		1.80			.16	.76				4.48
Trenton	Edisto			.39					.15	.05	.74							.82			.07	.63	T.		2.23	T.		.09	.43				5.60
Trial	Santee			.05					.20			.76						1.05			.09	.08			1.70			.04	.08				4.05
Walhalla	Savannah																																
Walterboro	Ashepoo			.15					T.	T.		.12							1.36		.09	.05			1.93			T.	T.				3.70
Winnsboro	Broad			.40														.50		.76	.40	.26			.35			.80	.40				3.87
Winthrop College	Catawba			.20					.40	.02		.60	.57					.12	.81		.20	.44	.02		.09			T.	.55				4.02
Yemassee‖	Combahee				.07					.04	.02	.07	.20					T.	1.29			.11	.02	T.	1.94	.65			T.				4.41
Georgia.																															
Abbeville‖	Ocmulgee								T.	.04	*	.26	.70				*	.08	.80		T.	.06	.32	.26	.40	.06							2.98
Adairsville‖	Coosa			.15								.40	.61						1.66			44			.12				.62				4.00
Albany‖	Flint		*	.02	.04				*	.02	.01	.56	1.10					*	1.22			.03	.78	.36	1.46	.01			*				5.61
Allapaha‖	Allapaha									.06	*	.24	1.01					*	.78		*	.18		.46	1.60				*				4.33
Americus‖	Flint																																
Athens‖	Oconee		*	.12	.20			*	.02	.22	*	.20	.70					*	1.65		*	.05	.78	*	.99	.06		*	.43				5.42
Atlanta	Chattahoochee			.31					.06	T.		.36						1.14			T.	.79	.01	.03	.65		T.	.01	.77				4.13
Augusta	Savannah			.06					.01	.07		1.00						.94			.13	.32	.01	1.04	1.39			.04	.20				5.21
Bainbridge‖	Flint				.01					.05	.05	.47	.85						.97				.76	.71	1.24	T.		T.	.03				5.14
Barnesville	...do			.54				.01				.88	T.					1.52			T.	.80			.85				2.62				7.22
Blakely	Chattahoochee			.20					.10	T.		.99										1.04		.15	.87		T.		.30				3.65
Brunswick	Altamaha									.04		.52		.21				1.50			.12		.50	.45	.91			.21					4.46
Butler‖	Flint		*	.22	.21						*	.95	.10					*	1.46			*	.72	*	1.45				*				5.11
Camak‖	Savannah			*	.22							*	.50					*	1.04				.55	*	1.20	.40	.40						4.31
Canton	Coosa		*	.23	T.					*	.28	.47	T.					T.	.25		*	T.	.95						*	.78				2.96
Carlton‖	Savannah		*	.20	.15				T.	.27	.06	.11	.50					*	1.86			*	.85	*	1.44					.20				5.64
Carrollton	Chattahoochee			.42	.02				.05	.01		.85	.01					.70			1.13	.02			1.00			.02	1.14				5.37
Clayton	Savannah			.36					T.	.25		.73						1.71			.59				.08			.63	1.52				5.87
Columbus‖	Chattahoochee			.52	.13					.04		.57	.20						1.38			.07			.83				2.02				6.41
Covington‖	Ocmulgee		*	.12	.35				T.	.15	*	.25	.50					*	1.50			*	.60	*	.95	.18			.18				4.78
Cuthbert‖	Chattahoochee										.76	.13						1.70				.78	.36	1.01				.45					5.19
Dahlonega	...do			.27					.01	.11		.81	.03					1.72	.06		T.	.60	.06		T.		*	.01	1.25				4.93
Diamond	Tennessee		*	.60					T.	.02	*	.73	*	.12				1.47	.11			.59	.12		T.		.04	*	.48				4.28
Douglas	Satilla			.03					.07	.14		.90	.02					.04	.76	.01	.04	.06	.01	.10	2.77				.50				5.45
Dublin‖	Oconee			*	.22						T.	.38	.74					*	.78			T.	.32	.10	1.40				*				3.94
Dudley	...do			.30					T.	T.		.80						T.	.78		T.	.32		.12	1.00				.16				3.48
Eastman‖	Ocmulgee			*	.08						*	.55	.20					*	1.84	*	T.	.05	.49	.47	1.09				*				4.77
Eatonton	Oconee			.29					.04			.77						.78	.03			.84	.13		1.94				.91				5.73
Elberton	Savannah			.33					.32	T.		.52	.25					2.00			T.	.93			1.18				2.60				8.13
Experiment	Chattahoochee			.57					.09			.60						1.35				.77	.04		1.60				1.65				6.67
Fort Gaines‖	...do				.20					T.		1.15	.10						1.70				.80	.15	1.15				T.				5.15
Gainesville‖	...do			.10	.10				*	.04		.28	.46					*	.98			.05	.48	*	.14				.15				2.78
Gillsville	Oconee			.25					.08	.03		.20						1.79	.04		.30	.59			.25			T.	1.23				4.76
Glennville‖	Altamaha			.02					T.	.01		.84						.68		.08	.04	.01	.39	.89	T.			.11	.57				3.64
Gore	Coosa			.13						.06		.96						1.82	T.		T.	.17	.04		.07		*	.01	1.21				4.47
Greensboro‖	Oconee			.06	.28				*	.15	*	.22	.62					*	1.20			T.	1.10	*	1.98	.38		*	.65				6.64
Griffin‖	Chattahoochee			.65	.05	.05			T.	.12		.60	.22						1.30			T.	.88		.30				1.10				5.27
Harrison	Ogeechee			.25						.10		1.26						1.17			.04	.56	.04		3.85				.40				7.67
Hartwell	Savannah			.10	.13				.11	.12		.04	.08				1.12	.08				.94							2.00				4.72
Hawkinsville‖	Ocmulgee		*	T.	T.				*	T.	*	.46	.42						*	.46	*	.02	.42	T.	.52			*	T.				2.30
Helena	...do		T.	.04					T.	.01		.74	.01					.02	1.89	T.	T.	.16	.04	.21	.79	T.			.59				4.50
La Fayette	Tennessee			.40	.40					.07		.65	.10					1.67				.27						.25	1.10				4.91
Lisbon	Savannah			.32	.03				.20	.04		.63						.90	.10		.01	.68	.02		2.25				.68				5.86
Lost Mountain	Chattahoochee			.25					T.	.25		1.00	.37					1.87				.41			.40				1.10				5.65
Louisville	Ogeechee			.25					.03			1.11						1.26				.74			2.26								5.65
Lumber City‖	Ocmulgee								*	.06	.02	.22	.76					*	1.12		*	.01	.06	.24	.56	.30							3.35
Lumpkin‖	Chattahoochee		.05						.16		.72	T.						1.22				1.14		1.22					.71				5.22
Macon	Ocmulgee			.42					T.			1.09						1.00			T.	.52	.01		1.15				.24				4.43
Marshallville‖	Flint			.31								T.	1.45					T.	1.90		T.	T.	.71		1.58				.10				6.05
Mauzy	Suwanee			.10					.03	.23		1.22						.05	1.13			.36			1.80				.43				5.35
Milledgeville‖	Oconee		*	.65	.05				*	.08		.60	.50					*	1.12		*	.03	.42	*	.94	.27		*	.05				4.71
Millen‖	Ogeechee					17							32						1.20		.10		12		2.00	.41							4.32
Montezuma‖	Flint			*	.22				*	.06	*	.54	.40					*	.66			*	.80	*	1.14				*				3.82
Monticello‖	Ocmulgee			.12	.33				*	.07		.55	.40					*	1.20			.14	1.10		1.63	.27			.30				6.11
Morgan	Flint																																
Newnan‖	Chattahoochee		*	.40	.10					.09	*	.52	.21					*	2.00		*	.10	.30	*	.47	.15		*	.70				5.04
Oakdale‖	...do			*	.34				.05	.08	T.	*	.84					*	1.50			.94	T.	*	.74			*	.45				4.94
Point Peter	Savannah			.35					.33	.20		.81						1.62	T.		*	.85			1.95				2.32				8.43
Poulan	Suwanee								.06	.02		1.15						.99				.42	.27	.21	1.46	.02			.32				4.92
Putnam	Flint			.25								.70						1.00				1.40			.20				.70				4.25
Quitman‖	Suwanee			*	.14					*	.32	.15	.66					*	1.12			*	.22	.75	.78				*				4.14
Ramsey	Coosa			.23						.08		1.04	.10					1.55				.26					.15		.85				4.28
Resaca‖	...do		*	.04	T.				*	.15	*	.18	1.00					*	1.70			*	.20					.73	.52				4.52
Rome‖	...do			.16	.04				*	.06	.02	.05	1.16					*	1.75			.04	.38		.28			T.	.64				4.58
St. George	St. Marys				.10		T.			T.	.10	.35	.01						.30	.05		.20		.40	.31		.05	.02	.15				2.04
St. Marys	...do			.08						.19		.52						.37		.22		.02	.26		.48				.50				2.64
Savannah	Savannah			.07					.01	T.		.35						.61	T.	.19	.07	.04		.29	1.39		T.	.01	.10				3.13
Statesboro‖	Ogeechee			.14					T.	T.	T.	1.00						2.50			T.	.10	T.	.18	1.12		T.	.23	.25				5.52
Talbotton	Chattahoochee			.61								1.12						1.60				.72	.02		1.15				2.15				7.37

TABLE 2.—*Daily precipitation for February, 1910. District No. 2*—Continued.

Stations.	River Basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Georgia—Cont'd.																																
Tallapoosa‖	Coosa			.28						T.		.05							2.00												2.33
Thomasville	Ocklockonee			.03					.03	.28	.09	1.27						1.24		T.	.01	.29	.95	.05	.73				.53				5.50
Toccoa‖	Savannah			.12	.06					.08	.02								1.47			.16	.46			.11			.41				2.89
Valdosta.‖	Suwanee									T.	.20	.10	.40						1.12		T.		.01	.67	1.02	T.							3.52
Valona	Ogeechee									.25		.38						T.		.20					.75				.70				2.28
Washington‖	Savannah		*	.28					.18	.22	*	.08	.64					*	.94		*	.08	.92	*	1.92	.08		*	.12				5.46
Waycross‖	Satilla			*	.05				*	.03	.12	.05	.20					*	.70	*	.20	.05	.50	.20	.33	.33			*				2.76
Waynesboro‖	Savannah				.07						.85	.65									.07		.42		2.70			T.				4.76
West Point‖	Chattahoochee		*	.98	.02			*	T.	.01	*	.92	.34					*	2.56		*	.06	.72	*	1.16	.08	*	T.	.66				7.51
Woodbury‖	Flint			1.01							*	1.78	.14					*	1.04			*	1.00	*	.86				.63				6.46
Florida.																																
Apalachicola	Coast			1.00					.30	1.04	.02	1.00						1.08		T.	.03	.87		1.22			T.	.34	1.20				8.10
Arcadia	Peace Creek										.04	.63	.60					.02	.07		.08		.01		T.								1.45
Archer	Waccasassa				.17						.27	.75							.48	T.				.25	.28				.24				2.44
Avon Park	Kissimmee				.02							1.56	.14						.15	.10					T.		.01	T.					1.98
Bartow‖	Peace Creek				.04						.06	.26	.75						.06	.26	1.23						.11	.02					2.79
Blountstown‖	Apalachicola				.13							1.87		T.					1.02			1.70	1.98										6.70
Bonifay	Choctawhatchee																																
Brooksville	Withlacoochee										.54	1.30							1.07	.44	.90												4.25
Carrabelle	Coast										.55	1.05						.45	.60										1.20				4.15
Cedar Keys	...do				.15						.43								.25	.14	.18			.28	.02	T.							1.45
Clermont	Lake											2.30								1.31	.15												3.76
De Funiak Springs	Choctawhatchee			.15					.30	.15		1.35						.60		T.	1.35	.25	.80	.75		.05		1.63				7.38
De Land	St. Johns				.10						.20	.70							.60	.83	.93	.02	T.		.04	.02	.02	.19					3.65
Eustis‖	Lake				.05					.16		.30							*	*	2.48				.05	T.	.03						3.07
Federal Point	St. Johns				.13					.02	.05	.45	.01						.09	.26	.21	.01		.03	.17	.01	T.	.06	.04				1.54
Fenholloway	Fenholloway				.60						.75		1.65						.80					1.47	.76								6.03
Fernandina	Coast			.04	.05					.04	.27	.60		.03	T.				.49	.04		.02		.14	.40	.03			.80				2.95
Fort Meade	Peace Creek											1.17	.11						.98	.65	.08				T.		T.	T.					2.99
Fort Myers	Caloosahatchee				T.						T.	1.10					.05		.17														1.32
Fort Pierce	Indian								.16		.60	.03					T.				.39												1.18
Gainesville‖	Lake				.21	T.					.19	.11	T.						.50	.02		.10	.04	.14	.02	.69	T.		.02				2.04
Grasmere	...do										.15	.71							.15	1.00	.34				.10	T.	.03						2.48
Hilliard	Nassau				.01					.01	.10	.10							.50		.20			.35	.75			T.	.10				2.00
Huntington	St. Johns											.62					.01		.11	.80	.60				.12								2.38
Hypoluxo	Lake								2.55				.95							1.46							.07						5.03
Inverness‖	Withlacoochee	.83			.20						.20		.70							.31	.48	1.07											3.79
Jacksonville	St. Johns			.03	T.			T.		.25	.02	.17						.05	.26	.10	T.			.20	.24		.02	.77	.34				2.43
Jasper‖	Suwanee			.25														1.25				.69	.72						.90				3.81
Johnstown	...do				.04					.37	.06	.78	.01						.44	.02	.07			.17	.28				.12				2.31
Jupiter	Coast								.76		.05	.56	.11					.06	.53		.01			T.			T.	.25				2.33
Key West	...do				.01								.82					T.	T.						T.	T.						0.83
Kissimmee	Kissimmee				T.							.63							.25	.96	.63						T.						2.47
Lake City	Suwanee			T.							.41	.50	T.					T.	.62	T.	.09			.48	.50				.07				2.67
Live Oak‖	...do				.10						.50	.10	.40						1.00					.75	.30	.40							3.55
Macclenny	St. Marys									.08	.33	1.18								.45					.72			.25	.18				3.19
Madison‖	Suwanee				.04					.01	.96	.07	.54						1.60		.07	.01	.08	1.17	.76								5.31
Malabar	Indian							.38	.24		.08	.39							.94	.05	.04			.10		T.	.12	.04					2.38
Manatee	Manatee										T.	1.42						*	*	2.04												3.46
Marianna‖	Apalachicola				.03					.09	.02	.73	.49					1.07			.01	.99	.74	1.02					.89				6.08
Merritts Island	Indan				.02				.06			.36							.08	.10	.17			T.	.23		*	.07					1.09
Miami	Coast																									T.		.70	T.				0.70
Middleburg	St. Johns										.25	.60										13			.50				.70				2.18
Milligan	Yellow				.10				.45	.03		1.35						.55				1.25	T.	.47	1.02		.03	.10	2.71				8.06
Molino	Escambia								.43		*	2.00						1.00				2.72	*	1.82					1.75				9.72
Monticello	Aucilla																																
Mount Pleasant	Apalachicola				T.				.10	.12		1.20						1.75	.35			.93		1.20	.63				.32				6.60
Newport	St. Marks									T.		.95						1.50		T.	T.		1.10	.40					.30				4.55
New Smyrna	Coast	.10			.08				.48		.18	1.24							.08	.97	.66					.05	.05	.12					4.01
Ocala‖	St. Johns										.22	.23	.85						.12		.55	.87				T.			.50				3.34
Orange City	...do											.88								1.08	.63							.26					2.85
Orlando	...do										.10	.76							30	1.38	T.				.15		T.	T.					2.69
Pensacola	Coast				.55				.14	.08	.08	1.66		T.				.64			T.	1.28	.39	.33	.06			.32	1.04				6.57
Plant City	Hillsboro											1.20	.11						1.20	1.26	.44							.15					4.36
Rockledge	Indian								.08			.53							.10		.40			T.	.63			.11					1.85
Rockwell	Withlacoochee									T.	.30	1.40							T.	.65	1.45		T.	T.									3.80
St. Andrew	Coast				.69				.22	.29		1.25	.03					.88			.22	1.47	.02	1.52	.36				.60				7.55
St. Augustine	....do.				.04					T.		.75							.07	.27	.16	T.			.20	T.		.22					1.71
Sand Key	...do																																
St. Leo	Withlacoochee				.19					*	.36	1.01	.03						.29	.90	.28				.19		T.	.04					3.29
Satsuma Heights	St. Johns				.12				.02	.05		.47							.09	.56	.31	T.		T.	.11	T.		.42	.13				2.28
Switzerland	...do										*	*										*							1.26				1.26
Tallahassee‖	Ocklocknee				.12					.05	.78	.44	1.10						1.35		.05	T.	.60	1.70	.85				.02				7.06
Tampa	Coast				.02					.19		1.25					T.		.77	.77	T.				T.			T.					3.00
Tarpon Springs	...do				.04						.12	1.00							.41	.62	.32												2.51
Titusville	Indian									.15		.19								.13	1.79					.04	.08						2.38
Wausau	Choctawhatchee				.04				.42	.04	.05	.11						1.37					1.49	1.40	.60				.22				5.74
Alabama.																																
Alaga‖	Chattahoochee				.28					T.	T.	.70	.40						T.	.94		T.	1.02	.16	1.42			T.	T.				4.92
Anniston	Coosa		T.	.28					.06	T.		.74						2.26	T.		T.		.01	.75		T.	.22	.94				5.67
Ashville	...do		T.	.25					T.	.04		.50	.02				T.	1.75	T.			.45		.47		.05	.02	1.36				4.91
Auburn	Tallapoosa		.01	.97					T.	.01		1.03	.02					2.60				.88	.13	T.	1.32		T.	T.	1.00				7.97
Benton‖	Alabama			.64								.46	.69						1.78			.82	.44		1.02			.16	.48				6.49
Bermuda	Escambia		T.	.27					T.	.03		1.56						1.73	T.		.01	1.31	.10	.02	.22		T.	T.	.59				5.84
Birmingham	Black Warrior			.14					.04	.01		.69					T.	1.54	T.			.71		.02	.19		T.	.68	.15				4.17
Calera‖	Coosa			.79						.05		.35	.40						2.42			.32	.12		.30				1.12				5.87
Camp Hill	Tallapoosa			1.20					T.			1.28						1.65				.92			.65				.78				6.48
Cedar Bluff	Coosa			.52								.65						1.90					.60						1.25				4.93
Citronelle	Alabama			.16	T.				.02	T.		1.07	.02				T.	1.83	.02		.08	.45	.02	.41	.09	T.	.02	1.60	.38				6.17
Clanton‖	Coosa			1.09						T.		.73	.47					.03	1.40	T.		.44	.34		.12			.08	.90				5.60
Cochrane‖	Tombigbee								.10	.12	T.	.08					.20	.56	.30	.60		T.	.04		.54			1.24					3.78
Cordova	Black Warrior								.02			.70					.25	1.56	T.			.65			.28			1.21	.05				4.72
Cullman	...do			.09					.07	.02		.63						1.61	T.			.60	.03		.28		T.	1.01	.12				4.46
Dadeville‖	Tallapoosa			1.36	.02				T.	.01		.77	.35						1.46			.18	.57		.53	T.			1.28				6.43
Daphne	Coast		T.	.27					.20	.10		1.05						.85			T.	1.00	T.	.80	.95			.20	.55				5.97
Demopolis‖	Tombigbee			.50					.10	.10		.80	.10					.08	1.40			.80	.28		.20				.98				5.34
Eufaula‖	Chattahoochee			T.	.18					.04		.92	.14						1.46			.02	.96	.04	.60			.02	.24				4.62
Evergreen‖	Escambia																																
Fayette	Tombigbee																																
Flomaton	Escambia			.05					.05			2.10						1.60				.55	.40	.40					.60				5.75
Fort Deposit‖	...do			.30					T.	T.		1.05	.10						1.90				1.64		.20				1.07				6.26
Gadsden‖	Coosa			.14	.04					.01		.02	.60					.02	1.70			.02	.76		.04			.20	.98				4.53
Goodwater‖	...do			.92		.38						.29	.70						.50			20	.28		.10				.48				5.85
Greensboro‖	Black Warrior			.99						.25		.06	.16				.03	1.07				.74			.30				.22				3.84

TABLE 2.—*Daily precipitation for February, 1910. District No. 2*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Alabama—Cont'd.																															
Greenville‖	Escambia				.42						1.43							T.	2.42					1.04	T.	.27			.76				6.34
Hamilton	Tombigbee			.18							.07	.30				.55		2.05				.85	.19		.77			.33	.20				5.49
Highland Home	Escambia		T.	.36					.01		T.	1.01						3.00			T.	.57	.27	.18	.41				.57				6.38
Livingston‖	Tombigbee			1.26						.28		1.05						.30				1.06	.25						1.52				5.72
Lock No. 4	Coosa			.31					.05			.83	.05					1.95				.30			.80			.06	1.00				5.35
Lucy	Chattahoochee			.04					.14	.02		1.08						1.30				1.06	.04		.90		.02		.21				4.81
Maple Grove	Coosa		.18	T.					T.	T.		.69				T.	T.	1.63			T.	.26		.30			T.	.96	.17				4.28
Mentone‖	...do				.50						T.	T.	.75					T.	.70				.22						1.26				3.43
Milstead‖	Tallapoosa			.86	.04							.82	.14						1.52			.22	.72	T.	1.00			T.	.64				5.96
Mobile	Coast		T.	.20				T.	.14	.06	.15	1.94		T.			T.	.99			.05	.45	.58	.20			.01	1.15	.48				6.40
Montgomery	Alabama		.10	.73					T.	T.	.01	.96						1.42	T.			.82	.07	.80	.06		.01	.31	1.29				6.58
Newbern	Black Warrior		.90	T.				.03	.06		T.	.94					T.	1.25	T.			.55			.26			.40	.52				4.91
Oneonta	...do			.25					.01	.05		.73	.05				T.	1.31	T.	.02	T.	.47	.20	.02	.15		T.	.09	1.10				4.45
Opelika‖	Tallapoosa			1.05								1.08	.13						1.97			.13	.80		1.40				.94				7.50
Ozark‖	Coast		.35									1.10						1.55				1.00		.80					1.90				6.70
Prattville	Alabama		.09	.71					T.	T.		1.23						1.31	T.			.62	.10		.72		.09	T.	.45				5.32
Pushmataha‖	Tombigbee			.77					.09			1.00						23	1.25			.60	.10		.26			.28	.80				5.38
Selma‖	Alabama			.82	T.				T.	T.		.86	.46				T.	.08	1.70			.38	.34		.20		T.		1.02				5.86
Spring Hill	Coast			.21					.31	.10		2.01		T.				1.64			T.	.55	T.	.25	T.		T.	.15	.63				5.85
Talladega	Coosa			.62					.02	.02	.66							2.40				.56			.37				1.18				5.83
Tallassee‖	Tallapoosa			.66	.17					.02		.72	.29						1.91			.22	.91		1.51	.02		.01	.71				7.15
Thomasville‖	Tombigbee			.60					T.	.05		1.15						20	1.31			T.	.55		.35			.07	.84				5.12
Troy	Escambia			.30					.07			1.02						.88				1.27	.09	.15	.41			.60	.39				5.18
Tuscaloosa‖	Black Warrior			.50					.01	.17		.51	.28					.51	.65			.41	.35		.08				1.08				4.55
Tuskegee	Tallapoosa			1.00								1.26						3.00				.84			1.00			.10	.20				7.40
Union Springs‖	...do			.21	.66					.06		.93	.21						1.10			T.	.90		.29				.97				5.33
Uniontown	Black Warrior		.13	.50					.10			.98						1.19			.58	.03			.22			.42	.41				4.56
Valley Head	Coosa			.39						T.		.52						1.51				.28					T.	T.	1.36				4.06
Wetumpka‖	...do			.83	.03							.75	.33						1.05			.20	.90		.70				.65				5.44
Mississippi.																															
Aberdeen‖	Tombigbee			.12					.08	T.		.51	.14					2.20	.14			.78	.04		.35			.16	.34				4.86
Agricultural College	...do		T.	T.					T.	T.		.30					T.	1.80				.72			.28			.60					3.70
Bay St. Louis	Coast		T.	.12				T.	.15	.24		1.11					.02	1.74			T.	.83	.14	.18	.03		.03	1.53	.12				6.24
Biloxi	...do			.20					.21	.20		1.42					.01	1.22			.01	.64	.56	.04	.10		T.	3.63	.25				8.49
Booneville	Tombigbee			.33					T.			.52					.09	1.95				.90	.15	.11	.26				.32	.08				4.71
Brookhaven‖	Pearl			1.15	.01				.03			.86						.64	.04			.38	.03						.86	.63				4.63
Columbia‖	...do			.22					T.			1.30		T.				.50	.30				.10						10	1.14				3.66
Columbus‖	Tombigbee			.05	T.				T.	.04		.16	.18				T.	1.40	.30			.40			.18				.44	.12				3.27
Crystal Springs‖	Pearl			2.03								.58						.44	.26			.70			.26				.72	.50				5.49
Edinburg	...do		.01	.82	.01				.23	.02		.65	.04				.01	1.26	.30			.97			.34				.59	.15				5.40
Enterprise‖	Chickasawhay		T.	1.08					.24			1.14					.08	.44	.40			.50	.20		.08				10	1.30				5.56
Fulton‖	Tombigbee			.14	.01				.08			.64						2.84		.16		1.16		.18	.60				16	.36				6.33
Hattiesburg‖	Leaf			.44	T.			T.				1.34						T.	2.10										.42	.78				5.08
Haslehurst‖	Pearl			1.47					.07	T.		.74						.35	.18			.95	T.		.16		.02	.59	.60				5.13
Jackson	...do		.50	.79					T.	T.		.50					T.	.78				.55		.02	.11			1.12	.04				4.41
Lake‖	...do			1.70					.30	.20		.80						1.10				*	.61		.10			.25	.68				5.74
Lake Como	Leaf																																
Laurel	...do		.20	.33					.02	T.		1.25	T.				T.	.77	T.		.01	.23		T.	.01		T.	.82	.21				3.85
Leakesville‖	Chickasawhay			.10					T.			1.26						20	1.68				T.		.95			15	1.24				5.58
Louisville	Pearl			.45					.21	.02		.70						2.15				.34			.34			.74	.14				5.09
McNeill	...do			.43							T.	1.15						2.10				.40	.20					.85					5.13
Macon‖	Tombigbee		T.	.40	T.				.17	.02		.60	.15				T.	2.00	.28			.45			.35		T.	T.	1.24				5.66
Magnolia	Pearl			.06				T.	T.			.88		T.				1.05				.35		.15			.03	.80	.14				3.46
Meridian	Chickasawhay		.74	.67					.18	T.	.08	.93						.13	.84	T.		T.	.69		T.	.07		T.	1.29	T.				5.62
Merrill‖	Pascagoula			.08	T.				.08	T.		.74						.08	T.	2.00			.51	1.16					20	1.10				5.95
Monticello	Pearl		.50	.44					.02			.89						1.37			.07	.25			T.			.96	.16				4.66
Okolona‖	Tombigbee			.06					.08			.55	.16					2.75	.10			1.16			.50			.16	.23				5.75
Pascagoula	Coast		.77						.20		1.95							.71				1.93	.10		.05			.10	.61				6.42
Pearlington	Pearl			.45					.19	.38		.82						.59			.36		.07	.03				.83					3.72
Porterville	Tombigbee		T.	1.26					.26			1.08					.41	.95				.98						1.78					6.72
Shubuta‖	Chickasawhay			.52					.10			1.20						.14	.92			.12	.24		.14			.12	.62				4.12
Waynesboro‖	...do			.38					T.			1.10					T.	.55	.58			.13			.41			.42	.76				4.33
Woodland	Tombigbee			.09					.08			.66						1.92				1.86	.03		.57			.77					5.98
Louisiana.																															
Pearl River	Pearl			T.	.28				.04	.01	.12	.94					T.	T.	.30			.04	.30	.38	.01			.16	.68				3.26

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 2, South Atlantic and east Gulf States.*

Date.	Virginia.								North Carolina.																Charleston, S. C.	
	Lynchburg.		Norfolk.		Richmond.		Saxe.		Charlotte.		Edenton.		Fayetteville.		Hatteras.		Newbern.‡‡		Raleigh.		Reidsville.		Salisbury.		Wilmington.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	42	24	38	27	41	26	41	14	45	23	42	24	46	24	40	30	52	24	42	24	45	20	46	21	45	27	48	30
2...	58	24	50	31	55	24	60	17	55	32	48	25	61	24	48	34	57	21	59	28	60	26	60	25	58	29	51	33
3...	47	38	56	39	52	40	51	37	45	39	55	36	50	43	55	45	56	37	51	41	54	38	50	40	58	43	58	46
4...	46	31	46	34	48	30	49	27	49	31	48	28	49	32	49	36	50	31	46	32	49	28	50	28	55	35	53	40
5...	44	31	47	34	47	21	51	31	53	30	50	31	56	28	50	40	60	27	53	31	53	28	55	29	58	32	58	35
6...	32	18	36	18	31	13	49	20	44	28	45	24	48	31	44	25	48	26	40	23	40	28	44	26	50	29	57	38
7...	41	15	30	13	34	10	43	9	46	22	32	11	47	16	33	18	41	15	42	18	47	15	48	17	43	22	44	29
8...	40	24	50	26	47	25	41	24	37	33	51	21	51	24	56	27	58	20	42	27	39	27	40	31	59	31	62	41
9...	42	29	59	37	54	31	42	30	54	33	58	38	64	37	60	44	66	35	59	35	48	30	53	31	64	51	67	49
10...	42	28	55	34	47	29	48	24	47	33	55	35	58	33	57	40	54	38	51	33	48	25	53	27	61	38	58	47
11...	30	23	48	33	33	25	35	20	34	26	48	38	38	31	63	40	63	32	25	30	38	25	40	26	64	36	55	44
12...	39	23	55	34	44	27	38	26	40	28	57	36	48	34	63	42	50	37	43	30	50	24	42	27	64	38	56	39
13...	34	19	36	25	35	21	36	15	35	17	43	24	40	20	43	31	39	23	34	19	36	15	38	26	38	24	43	29
14...	45	22	48	28	46	22	46	21	47	22	46	18	52	22	46	32	53	20	49	23	47	16	47	20	51	26	54	29
15...	52	33	63	39	63	38	62	34	58	35	61	33	64	29	58	42	66	29	62	33	57	30	59	30	62	40	61	41
16...	65	44	69	47	68	49	68	45	65	45	69	41	70	40	63	51	74	41	68	44	65	41	65	43	71	47	60	47
17...	62	50	74	55	73	51	73	50	69	50	78	46	78	48	66	57	67	47	74	51	67	47	68	50	68	56	70	53
18...	57	22	62	30	59	26	68	31	59	26	64	34	68	36	61	36	58	52	60	29	65	28	62	32	60	35	62	42
19...	35	16	34	26	35	19	45	16	41	20	55	24	44	25	43	33	61	25	39	23	40	17	44	17	39	28	42	36
20...	33	19	57	33	37	22	43	20	33	28	61	29	50	30	60	43	60	32	37	27	34	24	37	27	57	34	47	37
21...	42	32	57	42	51	33	44	32	44	33	61	45	56	35	61	53	65	41	54	33	42	24	44	30	61	44	59	42
22...	58	35	64	50	62	38	65	40	66	44	66	48	70	50	64	52	72	48	65	48	66	39	67	42	70	52	74	52
23...	53	30	57	33	57	29	59	27	66	42	76	40	71	43	65	43	73	42	62	36	60	37	62	35	73	44	65	54
24...	30	22	34	29	29	25	51	23	47	26	46	28	57	29	46	38	52	35	36	24	50	23	55	26	44	31	57	34
25...	40	22	32	27	37	22	38	15	49	25	45	22	41	22	38	34	46	24	39	21	40	20	49	23	44	27	51	34
26...	46	21	51	29	48	21	42	12	49	27	58	23	56	23	53	37	68	25	53	24	43	21	49	25	54	29	57	38
27...	51	39	66	51	66	42	77	33	67	39	67	43	72	45	60	50	70	43	69	49	64	34	64	36	68	51	66	54
28...	59	49	76	66	75	59	75	57	69	55	70	53	72	60	63	55	77	53	72	61	70	51	70	50	72	61	71	62
29...																												
30...																												
31...																												
Mns	45.5	28.0	51.8	34.5	49.1	29.6	51.4	26.8	50.5	31.9	55.5	32.1	56.3	32.6	53.9	39.6	59.1	33.0	51.3	32.0	50.6	27.9	52.2	30.0	57.5	37.1	57.7	41.2

Date.	South Carolina.														Georgia.											
	Columbia.		Conway.‡‡		Georgetown.		Greenville.‡‡		Newberry.		Society Hill.		Trial.		Adairsville.‡‡		Albany.‡‡		Atlanta.		Augusta.		Dahlonega.		Macon.		Savannah.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min
1...	48	25	50	27	50	33	57	25	48	23	44	24	50	26	48	23	53	31	52	22	50	27	50	19	49	27	50	31
2...	55	28	60	23	56	45	57	25	56	24	54	42	55	21	51	12	50	28	48	37	55	27	51	21	49	27	53	34
3...	54	45	61	41	60	43	47	26	49	43	52	32	60	44	54	26	63	31	55	35	56	42	51	36	61	42	59	46
4...	50	35	63	37	60	38	58	32	49	31	47	29	54	34	45	30	52	40	46	30	50	35	47	28	49	35	56	41
5...	56	31	59	22	57	33	65	21	56	24	55	31	58	28	52	23	60	27	50	30	56	33	49	32	54	32	58	34
6...	52	32	53	25	55	34	61	25	53	26	48	20	54	28	43	31	59	30	44	29	54	33	44	33	51	35	57	38
7...	48	25	48	22	47	25	56	19	48	21	44	29	48	25	49	21	62	33	48	26	50	26	44	20	51	30	46	33
8...	42	34	60	26	60	33	39	20	49	33	45	35	60	31	49	23	64	34	41	36	46	39	41	35	51	42	66	43
9...	65	40	62	39	70	47	52	34	59	36	62	36	59	45	58	38	74	52	59	33	67	40	51	38	68	41	73	54
10...	54	37	55	39	61	46	66	27	52	31	50	31	61	41	45	28	57	37	47	28	57	34	50	25	56	31	60	48
11...	40	32	56	36	55	38	47	25	43	32	43	33	44	35	35	30	67	42	42	30	44	34	44	28	48	35	62	45
12...	45	34	52	37	57	40	50	27	46	31	46	21	51	36	40	29	54	38	43	22	49	33	35	28	49	31	51	41
13...	37	21	41	31	45	28	45	15	42	19	37	22	40	25	38	16	46	27	35	16	41	22	33	14	41	22	42	30
14...	53	26	54	23	52	28	51	18	52	22	47	33	53	20	51	18	58	24	49	26	53	28	46	18	53	23	55	30
15...	62	37	65	35	63	38	63	24	63	32	59	36	65	31	60	28	68	27	59	37	62	35	55	29	62	35	64	40
16...	69	46	73	39	71	43	66	47	70	37	68	41	73	40	69	32	73	31	67	47	70	40	63	47	69	42	71	51
17...	73	51	76	50	74	53	65	49	72	47	72	42	74	47	62	54	71	54	63	26	73	50	60	51	70	36	72	56
18...	59	33	56	52	67	45	41	29	46	32	48	25	65	39	33	22	45	31	35	22	50	30	52	21	40	28	64	40
19...	43	26	40	30	57	32	44	21	45	24	42	31	45	30	46	19	50	30	46	24	45	29	42	20	45	30	40	35
20...	40	33	51	33	52	35	38	24	34	31	39	34	41	35	48	23	49	40	41	34	41	35	41	30	42	40	45	36
21...	50	35	59	37	56	42	47	31	46	34	52	39	55	39	54	36	61	39	50	35	49	37	50	36	50	40	61	42
22...	70	48	72	43	71	50	67	31	68	45	66	43	72	48	63	40	72	49	64	46	71	46	62	45	71	49	71	56
23...	73	46	75	45	70	49	71	34	72	40	67	31	73	45	59	38	76	52	68	42	74	46	69	38	71	50	65	57
24...	57	29	35	34	62	34	56	30	60	29	33	25	60	33	52	36	68	57	51	36	60	33	59	36	61	36	57	34
25...	47	29	48	30	63	31	51	28	48	28	38	27	50	29	55	29	58	36	53	33	52	33	50	28	55	33	52	34
26...	54	30	68	30	55	33	44	30	51	30	54	38	60	31	52	30	67	37	46	34	57	33	46	31	60	38	60	40
27...	69	49	66	38	65	52	61	33	65	42	67	54	77	45	66	38	79	56	68	44	72	52	54	39	74	56	71	57
28...	74	62	74	61	69	56	60	40	73	58	73	60	76	64	67	51	71	62	64	58	74	62	60	53	69	62	73	62
29...																												
30...																												
31...																												
Mns	55.0	35.7	58.3	35.2	60.0	39.4	54.5	28.4	54.1	32.3	51.9	33.7	58.3	35.5	51.6	29.8	61.7	38.4	51.2	32.8	56.4	36.2	50.0	31.4	56.0	36.8	59.1	42.5

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 2*—Continued.

Date.	Georgia.						Florida.																			
	Thomasville.		Waycross.‡‡		West Point.‡‡		Avon Park.		Fort Myers.		Gainesville.‡‡		Jacksonville.		Jupiter.		Key West.		Miami.		Orlando.		Pensacola.		Tallahassee.‡‡		Tampa.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	53	31	55	30	51	26	61	44	63	47	54	37	50	36	62	47	65	59	71	49	69	34	57	43	53	35	59	43
2...	53	28	53	24	49	27	73	39	69	42	71	31	60	33	69	46	70	58	71	48	70	36	61	47	57	33	67	39
3...	68	41	69	25	60	31	75	45	71	48	72	44	70	47	73	55	75	62	78	59	73	46	69	47	66	36	68	52
4...	56	34	54	41	43	33	71	45	72	50	53	33	59	40	75	52	74	62	80	56	73	49	51	40	51	40	63	47
5...	59	31	60	28	54	26	63	36	63	45	55	33	59	34	63	42	62	56	70	48	62	40	56	34	58	32	57	39
6...	62	35	62	32	50	27	69	31	65	38	65	34	63	40	64	40	63	56	70	40	68	32	61	45	60	35	64	42
7...	60	36	56	34	52	27	68	39	68	45	65	43	57	40	70	45	71	57	73	43	80	51	53	42	60	37	66	47
8...	65	43	70	34	56	30	79	48	76	48	74	44	70	52	70	58	75	62	76	62	76	51	61	52	62	40	72	52
9...	74	55	77	43	65	42	81	49	76	53	76	55	74	57	73	64	76	68	79	65	68	40	61	49	74	45	73	56
10...	58	44	61	47	55	28	82	57	76	53	65	55	61	52	75	59	77	68	82	63	74	58	54	39	54	47	74	59
11...	66	42	64	46	40	29	79	60	79	61	68	52	68	55	76	62	78	69	84	68	75	60	63	41	65	46	71	59
12...	55	39	56	41	50	32	64	54	64	59	56	41	58	41	64	48	70	58	73	61	65	50	55	35	56	38	61	46
13...	48	29	48	30	42	21	62	34	64	42	51	36	49	36	62	43	64	56	70	42	61	39	48	33	48	32	55	41
14...	58	24	69	24	53	21	64	38	63	39	60	30	57	32	64	41	62	52	67	41	63	35	56	39	57	29	60	35
15...	65	29	69	27	63	23	76	40	73	45	71	36	67	39	70	59	71	59	74	61	72	36	63	55	64	32	70	42
16...	72	44	74	31	70	33	79	45	77	52	77	48	72	50	74	65	76	66	76	62	78	56	65	61	69	38	77	52
17...	68	44	80	44	65	47	83	64	82	63	81	57	77	64	75	68	79	70	79	68	83	63	66	33	67	50	76	64
18...	46	32	51	40	39	23	80	54	76	60	57	44	66	42	79	64	78	65	84	61	80	60	43	26	47	34	66	50
19...	44	33	42	37	49	23	66	48	73	56	54	42	49	39	77	63	79	64	82	65	63	47	56	31	46	32	55	48
20...	47	40	48	36	47	29	81	56	80	63	53	42	49	41	76	65	79	68	81	63	64	51	55	45	51	36	64	53
21...	64	47	74	39	57	40	84	59	81	61	63	47	77	48	78	68	79	71	85	68	82	57	64	54	62	42	77	59
22...	70	52	74	47	68	44	86	61	80	62	83	53	77	58	78	68	79	68	83	61	85	60	69	59	73	50	77	59
23...	67	60	69	58	69	42	85	58	80	59	71	60	68	60	78	69	80	68	86	70	82	61	65	59	68	54	80	61
24...	64	42	69	59	49	45	83	56	76	56	75	57	69	41	81	61	79	68	85	64	80	59	62	44	64	58	72	57
25...	59	39	59	36	56	33	76	50	67	55	57	40	51	37	72	58	71	65	82	66	71	48	56	41	60	39	58	48
26...	70	42	70	39	59	35	77	50	80	59	75	40	69	51	74	66	78	70	84	74	76	56	63	53	71	40	76	53
27...	79	57	80	44	73	43	83	60	83	63	82	55	77	61	77	68	81	71	79	65	83	55	68	62	75	45	80	60
28...	68	61	79	60	68	59	87	66	85	65	86	65	80	65	78	71	80	73	79	69	84	65	66	62	68	60	81	68
29...																												
30...																												
31...																												
Mns	61.4	40.5	64.0	38.4	55.4	32.9	75.6	49.5	73.6	53.2	66.8	44.8	64.4	46.1	72.4	57.7	74.0	63.9	78.0	59.4	73.6	49.8	59.5	45.4	67.0	40.5	68.5	51.1

Date.	Alabama.																Mississippi.							
	Anniston.		Bermuda.		Birmingham.		Eufaula.‡‡		Mobile.		Montgomery.		Tuscaloosa.‡‡		Uniontown.		Columbus.‡‡		Hattiesburg.‡‡		Jackson.		Meridian.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	53	21	59	28	54	27	50	27	62	41	55	31	55	27	56	29	58	24	68	32	74	29	58	32
2.....	51	32	66	32	51	41	49	28	61	45	51	34	65	27	50	34	60	24	64	45	56	47	57	43
3.....	57	37	64	.....	56	37	63	32	70	46	63	41	59	41	62	45	58	43	67	40	58	42	62	38
4.....	48	30	49	37	47	30	48	32	52	39	50	35	38	34	49	35	49	34	54	32	50	35	48	32
5.....	54	25	57	26	54	30	54	26	59	35	55	34	55	24	58	30	59	22	62	27	61	25	58	29
6.....	47	30	56	28	47	30	54	29	59	42	54	38	50	25	55	35	51	23	65	26	55	35	51	37
7.....	52	24	55	28	52	27	52	28	57	40	52	33	64	27	52	30	51	27	55	32	55	32	48	32
8.....	51	41	58	42	51	44	54	32	63	51	59	44	53	27	57	42	54	29	60	38	63	43	50	41
9.....	59	32	65	54	57	32	68	43	64	44	64	39	63	41	61	43	58	42	70	44	56	45	58	34
10.....	48	26	58	30	49	26	56	30	59	37	55	30	50	25	51	26	50	25	66	30	48	29	46	28
11.....	45	33	51	39	39	33	54	34	53	40	45	37	40	27	47	36	35	26	54	32	44	33	38	34
12.....	44	24	55	29	39	25	51	34	58	34	50	30	44	29	49	30	41	24	63	32	54	28	49	29
13.....	41	16	47	26	40	18	41	24	50	36	44	25	42	24	45	25	43	20	53	28	50	26	44	27
94.....	55	20	61	22	56	27	53	22	55	36	57	28	57	22	59	26	62	24	55	26	66	25	62	26
15.....	64	40	68	35	66	45	63	25	62	50	65	40	68	26	69	36	72	31	74	26	73	49	70	46
16.....	69	54	75	57	68	56	68	36	66	58	73	53	71	45	74	52	70	47	70	44	74	59	71	59
17.....	64	25	67	37	61	22	66	45	65	32	66	29	51	47	66	31	38	37	46	42	66	24	66	22
18.....	36	20	40	22	34	18	40	25	44	26	40	22	37	19	39	21	36	18	35	22	39	20	35	19
19.....	51	22	56	24	50	18	47	24	57	31	52	25	50	19	52	22	50	17	40	22	56	21	50	22
20.....	48	36	55	37	49	37	49	30	55	44	50	40	50	24	58	34	53	25	58	22	67	30	54	36
21.....	63	42	66	48	62	46	60	39	70	53	60	45	64	41	68	44	61	38	75	42	71	54	69	51
22.....	68	45	73	57	68	49	70	45	75	56	71	56	67	48	70	53	60	44	78	55	69	47	66	49
23.....	66	41	68	57	64	40	69	55	68	58	70	50	64	41	70	46	58	40	71	52	61	46	63	42
24.....	52	37	64	38	47	31	53	50	63	44	56	38	51	32	63	35	47	29	46	36	50	29	48	32
25.....	58	30	66	33	59	30	56	32	62	40	58	37	61	31	58	33	61	28	67	32	63	29	58	32
26.....	53	40	63	42	56	45	62	34	62	50	58	46	62	33	59	45	61	33	66	32	61	48	62	48
27.....	71	52	76	55	68	56	73	43	66	60	75	57	63	49	67	54	61	50	65	52	65	55	64	57
28.....	64	56	73	57	64	56	68	57	69	59	69	57	60	54	64	56	61	50	76	56	58	49	69	56
29.....																								
30.....																								
31.....																								
Means.....	54.7	33.2	61.1	37.8	54.6	36.5	56.8	34.3	60.9	43.8	57.8	38.4	55.5	32.5	58.1	36.7	54.2	31.2	61.5	35.7	59.4	36.9	56.2	36.9

Climatological Data for February, 1910.

DISTRICT No. 3, OHIO VALLEY.

FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

The weather during the month, as a whole, was somewhat colder over the greater portion of the district than is usual in February. The deficiency in temperature was most pronounced in the central part of the district, and least in the northeastern portion. The most important events of the month were the two unusually heavy snowstorms, in each of which there was an average of from 8 to 12 inches of snowfall over the greater portion of the district. The total snowfall during the month was unusually large, ranging from 5 to 20 inches over Tennessee and portions of Kentucky, Illinois, and Indiana, while over considerable portions of Ohio and western Pennsylvania it was from 20 to 44 inches. In West Virginia, while the amounts were from 20 to 44 inches at a number of places, as a rule it was from 12 to 20 inches. There were several cold waves, two of which were of decided consequence. These occurred in the periods 12–13th and 17–19th. Temperatures ranging from zero to −23° were reported at many places in the district on the mornings of the 18th and 19th. The ground was mostly covered with snow during the entire month in the northern and eastern portions of the district and during a considerable part of the month in the southern portion.

Six general disturbances moved across the district during the month, with marked effect, as follows: (1) A storm crossed the upper Ohio Valley to the lower Lake region about the 3d, attended by general rain, which changed to snow as the storm center passed. (2) An extensive, but rather shallow, depression crossed the Mississippi Valley the 8th and 9th attended by rain and heavy snow. (3) A storm moved from the middle Gulf coast along the Appalachians on the 11th and 12th, attended by very heavy snow. (4) A cyclonic area of unusually large dimensions moved eastward from the central Rocky Mountain region during the 15–17th. This was attended by heavy precipitation that began as rain, soon turned to sleet, and afterwards to heavy snow, and produced one of the worst ice, sleet, and snowstorms that has occurred over the district in a number of years. (5) A storm moved into the central Mississippi Valley from the southwest during the 21st–22d, attended by moderately heavy rain over the entire district. (6) The storm of the 26–27th, which was attended by general and very heavy rains. During the rest of the month high pressure areas with fair and generally cold weather prevailed.

TEMPERATURE.

The temperature averaged about the normal in portions of West Virginia, southwestern Virginia, and western New York. It was from 1° to 3° below normal in the greater portions of Ohio, Indiana, Illinois, Kentucky, and Tennessee. Over considerable areas in north-central Kentucky, Ohio, and in Indiana the monthly temperature averaged from 4° to 5° below normal. As a rule there were no long periods of unusually warm or unusually cold weather, the temperature condition of the month consisting of a series of short alternating periods, some warmer, some colder than the normal, none lasting over three or four days. The warm periods were the 1st–5th, 8–9th, 14–16th, and the 26–28th; and the cold periods, the 6-7th, 10–13th, 17–19th, and the 21st–25th. The highest temperatures recorded during the month ranged from 60° to 70° in the southern and middle-eastern portions of the district, and from 48° to 65° in the northern sections. Minimum temperatures of from zero to −23° occurred in Tennessee and over the States to the northward, and from zero to −3° in the extreme northern portion of Alabama and the western portion of North Carolina. The minimum temperature in southwestern Virginia was −2°, and in northern Georgia, 14° above zero. The section director at Nashville reports a phenomenal temperature situation in Tennessee on the morning of the 13th. He says:

> An area comprising about 10 counties in the western highlands and lower Tennessee River Valley sections experienced temperatures −10° to −15°, while zero, or slightly below, was recorded in about 20 counties surrounding this area. The ground had been deeply covered with sleet and snow on the 11th, which contributed considerably, no doubt, to the conditions which brought about these very low temperatures. Apparently a mass of very cold air flowed southward up the Tennessee River Valley across the State and also spread southeastward into the lower central basin. The northern counties of the central basin were 15° to 20° warmer than the southern ones the morning of this day, the 13th. The eastern half of the State felt the cold wave but slightly.

PRECIPITATION.

Precipitation averaged somewhat above normal in Kentucky, Ohio, and southwestern New York. It differed but little from normal in other parts of the district, except in northern Georgia and western North Carolina, where the average was considerably below normal. At two stations in western North Carolina, however, the amounts were in excess of 7.50 inches. The precipitation for the month was between 5 and 6 inches over the lower watershed of the Tennessee River in Tennessee, over considerable of northern and western Kentucky and central Ohio; it was less than 2 inches over considerable areas in west-central Indiana and east-central Illinois; and was between 4 and 5 inches in nearly all other parts of the district. At Owenton, Ky., the total for the month was 7.15 inches. There were 5 distinct periods of precipitation: The 3d and 4th, the 9th to 13th, the 16th to 18th, the 21st and 22d, and the 26th to 28th. During the first two decades the precipitation was mostly in the form of snow. Very heavy snow occurred generally on the 11th and 12th and sleet and snow on the 17th and 18th. Heavy and general rains occurred in the last period. In Indiana the rains of these dates gave nearly one-half of the total precipitation of the month.

MISCELLANEOUS.

The snowstorm of the 11th and 12th was attended by high wind and there was much drifting of the snow, which impeded traffic to a large extent, especially in the northeastern part of the district. The heavy snowstorm of the 11th extended to the extreme southern borders of the district. Also there was considerable sleet attending this storm in some of the southern States. The heavy ice, sleet, and snowstorm of the 16th and 17th caused more widespread damage than any other storm of the month. The snowfall attending this storm broke all previous records as to depth at a number of places in Ohio and Kentucky. The depth of sleet and snow in Ohio measured from 13 to 25 inches, and in Kentucky from 5 to 13 inches.

Very little outdoor work was accomplished during the month on account of the snowstorms and generally unfavorable weather. In fact, since the first week of December, the weather has been so severe and winterish as to practically preclude progress in any construction work or large engineering projects in the district. The roads generally were in bad condition, and at times blocked, interfering materially with the marketing of grain, tobacco, and other staple crops. However, considerable was done during the early part of February in getting into fields of ungathered corn and bringing that work to a close.

Live stock generally came through the winter in good condition. The necessity for feeding of stock during the winter has been so extended that rough material and hay have been so largely drawn upon as to greatly reduce the supplies of these

products, and the supply of hay available for shipment has become very limited.

The following are extracts from the reports of section directors and other Weather Bureau officials:

North Carolina—A severe cold wave prevailed from the 11th to the 14th, with heavy snow on the 11th, sleet and snow extending to the southern portion of the section. The lowest temperature for the month, −3°, occurred at Waynesville, on the 13th. Another moderately cold wave prevailed on the 25th and 26th, followed by a marked rise in temperature with rain, which was heavy to excessive in the southern portion of the section.—*Lee A. Denson, Section Director, Raleigh.*

Virginia—Stations in the Clinch and Holston valleys, which generally lie below the 2,000-foot contour, reported mild conditions for February, while in the higher region of the New River watershed the mean temperature averaged slightly below normal. Stations in the last-named district also received a deficient amount of precipitation in contrast with the most of the western valleys, where the amount was abundant. On the 11th and 12th a heavy and general snowstorm prevailed. This storm covered the ground with snow to an average depth of about 8 inches.—*Edward A. Evans, Section Director, Richmond.*

Alabama.—The mean temperature for the month for that portion of the Tennessee watershed lying in Alabama averaged 2.6° below normal. The coldest period was from the 12th to the 14th, during which minimum temperatures of from −4° to −12° occurred.—*Patrick H. Smyth, Section Director, Montgomery.*

Tennessee.—The snowfall over the central portion of the State and the western plateau counties on the 11th was unusually heavy, the amount over these sections averaging about 10 inches. Heavy sleet occurred over portions of the same sections on the 17th, damaging timber and telephone and telegraph wires to a considerable extent.—*Roscoe Nunn, Section Director, Nashville.*

Kentucky.—The lowest temperature of the month was −12° and occurred at Anchorage, on the 18th. During the 11th and 12th snow to the amount of from 4 to 13 inches, and during the 16th to 18th sleet and snow to a depth of from 4 to 12 inches, fell over the State. The amount at Louisville in this storm was 10.9 inches, the heaviest on record at that station.—*Ferdinand J. Walz, District Forecaster, Louisville.*

Illinois.—The lowest temperature for that portion of Illinois in District No. 3 was −22° and occurred at Philo on the 18th, while the highest temperature was 62° and occurred at Tuscola on the 15th. The weather was uneventful, with the exception of the very heavy snowfall on the 16th and 17th, and the low temperatures obtaining on the 18th. Business was demoralized generally by the heavy snowstorm on the 16th and shippers lost considerable on account of goods freezing in transit about the 18th. | *William G. Burns, Section Director, Springfield.*

Indiana.—No notable temperature conditions occurred until the 18th, on which date a cold wave passed over the State, giving minimum temperatures from 2° in the extreme southwestern portion of the State to −23° in the east and west-central portions. The snow which accompanied the storm of the 16th and 17th was heaviest in the central and southeastern portions of the State, where from 15 to 18 inches fell. The amount decreased rapidly to the northward until in the northern counties it was comparatively light. The amount in the southern portion of the State was probably the heaviest that has occurred in the number of years since the beginning of authentic records in the State. In the northern portion of the State the ground was generally covered with snow during the entire month; in the central portion it was covered from the 8th to the end of the month, and in the southern parts from the 8th to the end of the second decade.—*Verne H. Church, Section Director, Indianapolis.*

Ohio.—Two unusually heavy snowstorms occurred, one on the 11th and 12th and the other on the 16th and 17th. The latter snowstorm broke all snowfall records at Cincinnati, Columbus, and at several other stations. About 13 inches, including 2 inches of sleet, fell at Cincinnati during this storm. At Columbus the total was 15.3 inches. Over the Great Miami, Mahoning, Muskingum, Scioto, and Ohio watersheds the amount of snow which fell in the period 16th to 18th ranged from 15 to 25 inches.—*Montrose W. Hayes, Section Director, Columbus.*

West Virginia.—The snowfall for the month was unusually heavy. The average for the State, 13.5 inches, was the greatest of record for February, with two exceptions. In 1889 and 1908 the averages were 19.0 and 15.8 inches, respectively. The weather during the month was generally referred to as being of the "old time winter" kind.—*Henry C. Howe, Section Director, Parkersburg.*

Pennsylvania.—No unusual temperature extremes occurred during the month, but cold and warm periods alternated with considerable regularity. The heavy snow accompanying the general storm of the 12th delayed traffic considerably in the central and western portions of the State. The snowfall for the month was unusually heavy in the Ohio Basin, there being an average of more than 23 inches.—*George S. Bliss, Section Director, Philadelphia.*

New York.—The month was particularly characterized by heavy snowfall and high winds. The weather remained cold enough throughout almost the entire month to prevent thawing, and the ground was covered with snow to an unusual depth until the 27th. During the storm of the 12th snow fell to the depth of 8 to 14 inches at several of the stations within District No. 3. Much drifting resulted from high winds, which impeded traffic to a considerable extent.—*Wilford M. Wilson, Section Director, Ithaca.*

RIVERS.

The Ohio River was open to navigation during the entire month. The water was at a moderate stage until about the 21st, after which the melting of the snow, with later rains, caused a decided rise, and by the end of the month flood stages were being rapidly approached in the upper stretches. The Tennessee River was generally at low stages throughout the month. The Cumberland and its tributaries, however, reached high stages toward the end of the month, but no flood stages occurred. There was a considerable rise in all the tributaries of the Ohio, but the stages were not high enough to do serious damage in any of them. Navigation was impeded to a slight extent in the upper Ohio by floating ice, and some troublesome gorges formed in the headwaters of the Allegheny River during the latter part of the month.

NEWS ITEMS.

The land owners along the Wabash River, in Indiana, have formed an association for the purpose of building a levee along the Wabash to protect the bordering farm lands in Indiana from overflow by this river. The plans, as far as developed at the present time, call for the construction of the levee from the mouth of Patoka Creek, a point nearly opposite Mount Carmel, Ill., down to New Harmony, Ind., a distance of about 40 miles. When this part has been completed it is probable that the levee will be extended farther down and possibly reach to the Ohio River. Preliminary surveys have been made and estimates of the cost are being worked up. The money for the payment of this work is to be raised by assessment against the land owners who would be benefited by the levee.

Decided objection to the building of the levee on the Indiana side has been raised by those living on the Illinois side, they claiming that such a levee would be detrimental to their interests, and would cause the overflows to be more extensive on the Illinois side of the river. This objection has increased to such an extent that land owners on the Illinois side have organized to take the matter into court, thus causing a temporary postponement of operations.

TABLE 1.—*Climatological data for February, 1910. District No. 3, Ohio Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
New York.																				
Allegany	Cattaraugus	1,441	4	21.8	.....	50	28	−22	25	43	5.01	.....	1.14	39.6	17	7	5	16	nw.	Charles E. Whitney.
Bolivar	Allegany	1,800	16	21.7	+ 1.0	48	28	−22	25	45	4.05	+ 2.07	0.89	27.2	14	9	2	17	sw.	Lowell Andrus.
Franklinville	Cattaraugus	1,598	13	19.4	+ 0.2	48	28	−21	25	41	4.45	+ 2.07	0.81	26.8	15	8	2	18	s.	Dr. John W. Kales.
Olean	...do	.....	2	.....	.....	.....	.....	.....	.....	.....	4.29	.....	.....	.....	.....	.....	.....	.....	.....	John W. Alles.
Pennsylvania.																				
Aleppo	Greene	1,135	9	29.4	.....	64	27	0	7	39	3.87	.....	0.90	20.0	13	8	6	14	nw.	J. S. Hinerman.
Baldwin	Butler	1,404	4	23.0	.....	43	16	− 6	7†	37	4.03	.....	0.91	44.0	12	4	5	19	w.	S. H. Templeton.
Claysville	Washington	1,127	6	29.4	.....	55	28	− 1	19	39	4.51	.....	1.01	16.5	12	10	8	10	w.	E. T. Buchanan.
Franklin	Venango	955	36	21.0	− 2.4	51	28	− 8	25	38	4.25	+ 0.97	0.76	25.8	15	7	6	15	nw.	F. E. Dixon.
Greenville	Mercer	950	14	22.5	− 2.8	47	8	−16	19	51	3.77	+ 1.11	0.78	29.5	12	14	5	9	nw.	A. M. Orr.
Indiana	Indiana	1,350	13	26.5	− 2.1	55	28	− 3	7	35	4.05	+ 1.16	0.80	19.0	12	8	6	14	s.	Rev. J. M. Welch.
Johnstown	Cambria	1,184	22	.....	.....	.....	.....	.....	.....	.....	3.13	− 0.78	0.84	.....	21	.....	.....	.....	.....	E. C. Lorentz.
Lycippus	Westmoreland	1,420	18	29.3	+ 2.7	60	27	0	7	29	3.61	+ 0.73	0.61	14.4	15	.....	.....	.....	.....	Murray Forbes.
Pittsburg	Allegheny	842	40	28.6	− 3.2	55	27	2	7	29	3.60	+ 0.94	1.08	16.2	13	6	9	13	nw.	U. S. Weather Bureau.
Saegerstown	Crawford	1,116	19	23.1	+ 0.4	46	10†	−22	19	54	.....	.....	.....	.....	15	2	9	17	sw.	J. G. Apple.
St. Marys	Elk	1,740	12	20.5[b]	− 0.3	47[b]	27	−12[b]	25	37[b]	2.37	− 0.44	0.80	24.0	9	7[b]	10[b]	9[b]	.....	Wm. E. Wittman.
Skidmore	Lawrence	1,000	6	22.8	.....	48	28	−11	19†	46	4.20	.....	1.20	21.0	6	11	1	16	sw.	W. H. Stoner.
Somerset	Somerset	2,250	54	25.4[a]	− 1.1	55[a]	27	− 5[a]	7	31[a]	4.09	− 0.16	1.20	30.8	16	0	13	15	nw.	W. M. Schrock.
Uniontown	Fayette	999	22	29.8	− 1.3	65	27	4	7	32	3.44	+ 0.25	0.66	15.5	12	5	12	11	nw.	Wm. Hunt.
Warren	Warren	1,137	21	22.4	− 0.3	50	28	−15	25	45	3.76	+ 1.13	1.10	25.8	11	7	1	20	nw.	Anna Simpson.
Maryland.																				
Deer Park	Garrett	.....	16	26.0	+ 0.8	57	27	− 6	7	40	3.72	+ 0.51	0.62	17.0	11	.....	.....	.....	.....	S. P. Specht.
Grantville	...do	.....	16	27.2	+ 2.4	56	27	2	6†	31	2.61	− 0.77	0.70	15.5	12	5	7	16	w.	J. S. Miller.
Oakland	...do	.....	10	27.3	+ 1.1	60	27	− 4	7	37	2.78	.....	0.48	11.2	14	6	11	11	w.	R. E. Weber.
West Virginia.																				
Arbovale	Pocahontas	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Uriah Hevener, jr.
Bancroft	Putnam	.....	6	32.0	.....	70	27	7	19	47	3.29	.....	1.20	14.2	9	10	1	17	nw.	James Hill.
Beckley	Raleigh	2,440	11	32.0	+ 2.4	70	27	0	7	40	4.51	+ 1.35	1.00	15.0	10	17	0	11	w.	John A. Ewart.
Ben's Run	Pleasants	622	9	30.9	.....	60	27	6	7	39	4.45	.....	1.00	24.0	12	20	2	6	.....	J. D. Riggs.
Bluefield	Mercer	2,563	15	35.2	+ 3.4	61	18	7	19	49	2.57	− 0.87	0.60	.....	8	14	2	12	.....	Norfolk & Western Ry.
Buckhannon	Upshur	1,472	20	32.2	+ 2.1	67	27	− 2	7	40	3.25	− 0.62	0.50	16.0	11	12	4	12	.....	H. A. Darnall.
Cairo	Ritchie	667	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Van A. Zevely.
Central Station	Doddridge	900	11	29.6	+ 0.4	68	27	− 2	7	48	3.51	+ 0.45	0.54	14.5	12	5	9	14	sw.	G. W. Sherwood.
Charleston	Kanawha	598	24	36.0	.....	70	27	9	19	36	3.09	− 0.57	0.92	10.5	10	12	5	11	w.	R. C. Hewes.
Creston	Wirt	612	10	32.0	.....	67	27	5	19	37	3.47	+ 0.79	1.30	14.6	11	10	3	15	w.	J. M. Reed.
Cuba	Jackson	544	9	31.8	.....	68	27	3	19	41	3.04	+ 0.31	0.60	13.0	11	9	10	9	nw.	C. T. Perry.
Doane	Wayne	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.0	.....	11	2	15	w.	W. H. Jude.
Elkhorn	McDowell	1,933	18	36.3	+ 1.8	65	27	8	7	47	2.41	− 0.82	1.22	7.6	6	12	7	9	sw.	J. J. Lincoln.
Elkins	Randolph	1,940	11	30.6	− 0.9	61	27	− 5	7	47	2.22	− 0.95	0.55	10.7	13	7	7	14	w.	U. S. Weather Bureau.
Fairmont	Marion	879	18	34.8[a]	.....	68[a]	24†	3[a]	6	56[a]	2.72	− 0.23	0.90	11.5	11	.....	.....	.....	s.	H. Glenn Fleming.
Glennville	Gilmer	738	22	33.6	+ 3.0	71	27	4	7	45	4.49	+ 0.59	1.20	14.0	9	6	1	21	nw.	John Holt.
Grafton	Taylor	985	18	32.2	+ 2.6	68	27	2	7	44	4.80	+ 1.78	0.74	13.5	13	11	10	7	.....	John W. Snider.
Green Sulphur Springs	Summers	1,600	14	30.2	− 0.6	58	2†	3	6†	44	2.02	− 0.59	0.65	5.5	6	14	1	13	w.	John W. Dalton.
Hinton	...do	1,400	21	.....	.....	.....	.....	.....	.....	.....	1.36	− 1.89	0.48	7.0	13	.....	.....	.....	sw.	V. V. Daly.
Huntingdon	Cabell	510	15	32.0	+ 1.1	70	27	7	19†	45	2.40	− 0.72	0.88	12.0	8	13	2	13	w.	L. H. Hutchinson.
Lewisburg	Greenbrier	2,200	10	31.2	+ 0.6	59	27	7	7†	40	2.09	− 1.00	0.67	4.5	12	13	4	11	w.	Geo. T. Afgabrite.
Logan	Logan	665	8	39.2	.....	72	27	11	19	40	4.57	.....	1.55	10.0	9	5	21	2	w.	H. C. Ragland.
Lost Creek	Harrison	1,033	14	32.4	+ 3.0	66	27	0	7	47	2.43	− 0.83	0.51	13.0	11	9	6	13	w.	Allen Smith.
Madison	Boone	704	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. E. Bradley.
Mannington	Marion	967	7	31.3	.....	66	27	2	7	44	3.42	.....	0.60	13.3	14	9	5	14	sw.	Jas. A. Morgan.
Marlinton	Pocahontas	2,169	11	28.7	− 0.2	53	27	2	7†	34	2.75	− 0.92	0.70	9.0	8	15	2	11	.....	C. J. McCarty.
Morgantown	Monongalia	1,250	36	31.8	+ 1.9	65	27	1	7	37	2.63	− 0.75	0.50	9.0	9	12	6	10	s.	Horace Atwood.
Moundsville	Marshall	640	8	31.0	.....	57	27	4	7†	45	3.74	.....	0.98	9.6	11	11	3	14	nw.	J. E. Matthews.
New Cumberland	Hancock	987	10	26.0	0.0	50	27†	− 6	19	47	4.50	+ 1.92	1.10	20.0	11	7	3	18	nw.	Frank S. Evans.
New Martinsville	Wetzel	634	17	31.7	+ 0.7	61	27	5	7	38	3.95	+ 1.00	0.85	25.5	12	17	0	11	n.	Wm. Ankron.
Nuttallburg	Fayette	2,252	18	27.4	.....	58	27	− 1	7	39	0.98	− 2.17	0.35	8.0	8	7	11	10	.....	Stephen Tully.
Parkersburg	Wood	638	22	31.2	− 2.8	64	27	8	7	31	3.42	+ 0.18	1.21	12.2	12	7	5	16	s.	U. S. Weather Bureau.
Parsons	Tucker	1,662	11	31.1	+ 3.9	65	27†	− 7	7	58	2.20	− 1.38	0.80	13.0	8	10	9	9	.....	J. W. Swisher.
Philippi	Barbour	1,192	18	32.4	+ 2.7	67	27	− 1	7	45	4.21	+ 0.89	0.70	16.3	16	3	14	11	w.	J. D. Dadisman.
Pickens	Randolph	2,785	20	30.0	− 2.0	59	27	−11	7	49	6.56	+ 2.04	1.04	39.0	13	8	5	15	w.	Dr. J. L. Cunningham.
Pineville	Wyoming	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. M. Senter.
Point Pleasant	Mason	553	21	32.7	+ 0.3	67	27	8	7	32	3.88	+ 0.26	0.86	10.0	10	5	4	19	se.	E. H. Armstrong.
Powellton	Fayette	904	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. Swain.
Princeton	Mercer	2,469	10	30.6	.....	58	16	6	7	36	2.95	− 1.53	0.65	12.0	8	11	8	9	w.	H. Scott.
Robertsburg	Putnam	.....	1	31.2	.....	68	27	5	19	56	3.29	.....	1.12	12.4	10	7	0	21	s.	E. P. Turley.
Ryan	Roane	639	7	31.9	.....	70	27	1	19	46	3.42	.....	0.93	24.5	12	10	6	12	.....	Wm. E. Ryan.
Smithfield	Wetzel	.....	6	30.0	.....	70	27	0	7	51	5.64	.....	1.20	19.0	15	9	5	14	ne.	G. M. Whisler.
Spencer	Roane	710	7	30.5	.....	70	27	0	19	47	3.73	+ 0.72	1.40	17.5	8	2	16	10	.....	A. M. McKown.
Sutton	Braxton	.....	5	32.6	.....	70	27	4	6	38	2.85	.....	0.90	15.0	8	11	4	13	.....	J. E. Baughman.
Terra Alta	Preston	3,207	10	25.6	+ 1.2	60	27	− 5	7	32	5.53	+ 2.20	2.15	24.8	14	6	4	18	w.	C. F. Dodge.
Union	Monroe	.....	7	31.4	.....	63	16	4	19	36	2.35	.....	1.38	4.8	4	.....	.....	.....	.....	Shelton Clark.
Valley Fork	Clay	.....	7	31.0	.....	70	27	2	14	52	2.64	.....	1.00	10.0	4	4	18	6	.....	Miss Blanche Pierson.
Webster Springs	Webster	1,500	7	34.0[a]	.....	66[a]	27	− 2[a]	7	41[a]	3.57	.....	0.72	13.5	13	5	12	11	nw.	D. H. Hamrick.
Wellsburg	Brooke	1,225	10	26.1	.....	51	28	2	7†	28	3.42	+ 0.40	0.60	19.2	12	9	8	11	w.	C. P. Waugh.
Weston	Lewis	824	21	30.7	+ 0.1	70	27	0	7	54	3.18	− 0.65	0.90	17.6	15	4	9	5	sw.	Miss C. M. Davis.
Wheeling	Ohio	645	26	26.9	.....	53	2†	− 2	19†	51	3.77	+ 1.28	1.20	17.4	12	12	2	14	sw.	Miss M. B. Forsyth.
Williamson	Mingo	660	10	37.4	+ 1.1	70	27	11	13†	41	2.98	− 0.36	0.90	11.0	7	9	7	12	e.	J. F. Keyser.
Ohio.																				
Amesville	Athens	630	6	29.1	.....	55	2	− 6	19	50	4.22	.....	1.23	15.5	13	13	4	11	sw.	F. W. Gibson.
Bangorville	Richland	1,380	23	24.4	− 0.4	49	28	− 4	19	32	5.26	+ 2.12	1.10	31.0	12	10	6	12	sw.	S. M. Painter.
Bellefontaine	Logan	1,276	16	23.1	− 1.4	48	15	−13	18	33	3.93	+ 1.44	1.31	22.7	7	7	10	11	sw.	Cory L. Lane.
Bladensburg	Knox	1,100	19	22.3	− 2.9	47	2†	−25	19	60	4.25	+ 1.91	1.00	25.5	9	10	6	12	w.	Miss Mary Elliott.
Cadis	Harrison	1,245	7	26.1	.....	51	28	− 3	19	33	5.58	.....	1.20	25.8	13	7	8	13	w.	Harry B. McConnell.
Cambridge	Guernsey	803	18	27.0	+ 0.2	52	2†	−14	19	51	5.33	+ 2.89	1.30	19.0	9	9	7	12	.....	Samuel Mehaffey.
Camp Dennison	Hamilton	570	17	28.4	− 1.1	54	16	−15	19	47	4.65	+ 2.05	1.76	19.6	11	14	3	11	s.	Henry F. Pinkvoss.
Canal Dover	Tuscarawas	884	17	24.4	− 0.8	53	2	−19	19	53	3.80	+ 1.19	1.20	31.5	9	9	10	9	s.	Ed. S. Slingluff.
Canton	Stark	1,065	27	22.8	− 4.1	47	27†	− 8	19	38	4.49	+ 1.51	1.26	37.0	12	12	3	13	n.	Prof. C. F. Stokey.
Cardington	Morrow	1,010	15	21.2	− 3.2	48	2	−14	11	47	4.96	+ 2.68	1.13	28.3	10	13	7	8	sw.	Ansel E. Salisbury.
Cincinnati	Hamilton	628	39	30.6	− 3.8	56	27	1	19	34	4.70	+ 1.46	1.95	20.6	12	9	5	14	se.	U. S. Weather Bureau.
Circleville	Pickaway	694	22	26.8	− 1.3	54	15	−10	19	42	5.96	+ 3.29	2.00	24.0	8	6	9	13	n.	Hon. S. W. Courtright.
Clarington	Monroe	600	7	29.6	.....	55	2	0	7	41	5.40	.....	1.50	18.2	16	8	9	11	sw.	Col. S. Tschappat.
Columbus	Franklin	918	32	26.2	− 4.8	49	27	1	19	31	5.05	+ 1.98	1.50	29.2	10	10	5	3	s.	U. S. Weather Bureau.
Coshocton	Coshocton	770	1	.....	.....	.....	.....	.....	.....	.....	3.71	.....	1.56	.....	.....	.....	.....	.....	.....	Mrs. Ada Jeffries.
Dayton	Montgomery	790	29	27.0	− 3.0	51	2†	−11	19	42	4.66	+ 1.90	1.25	31.6	9	10	8	10	sw.	Mrs. Edith L. Boyer.
Delaware	Delaware	927	13	23.6	− 1.7	47	2	−13	19	42	4.56	+ 2.53	1.02	29.7	13	11	3	14	se.	Prof. L. L. Hudson.
Demos	Belmont	1,325	22	26.3	− 1.9	50	2†	0	19†	40	2.36	− 0.49	0.71	15.4	12	11	10	7	sw.	J. T. Dysart.
Dennison	Tuscarawas	908	.....	26.4	.....	50	28	−14	19	51	5.70	.....	1.44	22.8	11	11	8	9	n.	Water Supply Co.

TABLE 1.—*Climatological data for February, 1910. District No. 3*—Continued.

Stations.	Counties	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Ohio—Cont'd.																				
Frankfort	Ross	750	18	28.6	− 0.5	53	16	−14	19	50	3.80	+ 1.01	1.40	20.0	7	15	1	12	w.	O. A. Cory.
Garrettsville	Portage	1,005	26	22.0	− 2.0	46	2†	−19	19	56	3.94	+ 1.03	0.75	32.8	15	7	7	14	w.	S. M. Luther.
Granville	Licking	960	28	26.2	− 1.4	58	3	−18	19	49	5.98	+ 2.98	1.70	26.0	9	9	2	17	sw.	Dr. L. E. Davis.
Gratiot‖	do	1,000	21	25.0	− 3.3	48	2	−16	19	46	4.40	+ 1.32	1.33	19.9	12	5	5	18	w.	W. B. Longstreth.
Green	Adams	500	17	32.9	+ 1.7	65	27	1	18	40	.....	.....	.....	.....	.....	14	1	13	nw.	W. F. Kenyon.
Green Hill	Columbiana	1,135	18	22.5	− 1.0	48	28	−17	19	50	3.52	+ 1.20	0.73	23.7	12	11	7	10	sw.	Jos. E. Bentley.
Greenville	Darke	1,060	24	25.8	− 1.7	50	2	− 5	19	37	3.91	+ 1.31	1.70	20.5	10	8	9	11	s.	G. A. Katzenberger.
Hillsboro	Highland	1,063	31	28.4	− 0.4	52	2†	− 2	18	33	6.46	+ 3.78	1.86	25.0	12	9	8	11	sw.	Carey H. Roush.
Ironton	Lawrence	575	27	34.1	+ 0.4	68	27	5	19	40	3.69	+ 0.05	1.10	11.3	10	8	6	14	sw.	James Bull.
Jacksonburg	Butler	975	42	26.6	− 2.7	56	27	− 4	19	34	.....	.....	.....	.....	.....	5	9	14	ne.	Dr. J. B. Owsley.
Kenton	Hardin	1,015	18	24.4	− 3.0	47	16	− 3	24	34	.....	.....	.....	.....	.....	11	4	13	nw.	N. S. Martin.
Killbuck	Holmes	1,087	18	23.8	− 1.2	48	16†	− 9	19	38	3.53	+ 1.06	1.08	27.5	8	10	6	12	n.	Geo. W. Nowels.
Lancaster	Fairfield	808	13	28.4	+ 0.2	57	28	− 9	19	40	5.21	+ 2.54	1.39	21.0	9	10	5	13	sw.	R. L. Renshaw.
Lawshe	Adams	900	7	29.1	.....	55	28	−16	19	55	5.63	.....	1.70	16.0	6	14	2	12	w.	Miss Ruth Hoffman.
McConnelsville	Morgan	710	26	27.6	− 2.7	54	28	− 4	19	44	4.74	+ 1.74	1.71	20.5	11	10	10	8	s.	C. H. Morris.
Marietta	Washington	627	90	32.2	− 1.6	58	28	8	7	35	4.09	+ 0.91	1.20	13.4	11	10	4	14	n.	Prof. T. D. Biscoe.
Marion	Marion	980	32	25.6	− 0.5	48	2	− 4	19	35	5.73	+ 3.40	1.10	37.3	11	11	4	13	sw.	Dr. E. H. Raffensperger.
Milfordton	Knox	1,200	18	23.8	0.0	49	28	−15	19	42	4.84	+ 2.54	1.60	34.0	7	15	3	10	sw.	L. H. Burgess.
Milligan‖	Perry	875	17	23.8	− 1.8	52	2†	−18	19	52	3.37	+ 0.76	1.08	17.5	7	10	4	14	sw.	V. C. Eveland.
Millport	Columbiana	1,145	18	23.2	− 1.0	48	28	−18	19	54	3.19	+ 0.73	0.75	19.7	13	3	8	17	sw.	G. F. Copeland.
Nellie	Coshocton	850	10	22.7	− 3.6	48	15	−21	19	46	3.65	+ 1.45	0.90	23.0	8	12	3	13	w.	Miss Ethel L. Gamertsfelder
New Alexandria	Jefferson	1,050	25	26.6	− 2.1	51	27†	− 2	19	39	3.00	− 0.46	1.10	22.0	7	12	4	12	n.	Mrs. Mary K. Pennell.
New Berlin	Stark	1,100	18	24.0	+ 0.1	55	16	−10	19	40	4.04	+ 2.23	1.00	24.5	11	13	0	15	sw.	Clayton Holl.
New Waterford	Columbiana	1,053	16	22.6	− 1.2	48	14†	−18	19	50	3.50	+ 0.85	.....	33.0	9	16	1	11	sw.	Sam. C. Scott.
Ohio State University	Franklin	757	27	25.6	− 2.7	49	2†	−12	19	51	4.11	+ 1.16	1.10	25.1	10	6	10	12	sw.	Prof. H. C. Lord.
Pataskala	Licking	997	18	24.9	− 1.4	51	16	−14	19	42	5.29	+ 2.52	1.84	26.9	11	8	8	10	sw.	J. N. Ridenour.
Philo (1)	Muskingum	1,018	15	27.1	− 1.7	51	16	0	19	32	4.36	+ 2.14	1.52	19.7	8	8	5	15	nw.	L. C. Buckholter.
Plattsburg	Clarke	1,130	17	25.4	− 0.6	49	2	− 2	18†	30	4.55	+ 1.89	0.85	32.0	9	14	2	12	n.	F. E. Stewart.
Pomeroy	Meigs	781	26	32.3	− 0.3	65	27	7	7	32	4.19	+ 1.20	1.20	15.5	11	11	6	11	s.	W. G. Branch.
Portsmouth	Scioto	527	79	32.4	− 4.6	62	27	6	19	39	5.47	+ 2.28	1.63	14.8	12	10	3	15	w.	Dr. H. A. Schirrmann.
Rittman	Wayne	990	18	.....	.....	.....	.....	.....	.....	.....	3.54	+ 1.08	1.00	27.0	10	10	3	15	n.	J. B. Gish.
Shenandoah‖	Richland	1,100	18	21.9	− 1.2	49	15	− 6	25	35	3.27	+ 1.17	1.24	15.4	10	0	17	11	s.	T. B. Arnett.
Sidney	Shelby	985	27	25.5	− 0.7	49	2	− 1	19	41	3.99	+ 1.15	0.98	28.7	10	12	3	13	n.	Hamline B. Blake.
Somerset	Perry	1,080	11	26.0	− 2.0	49	2†	1	19	38	4.33	+ 2.56	1.40	16.0	11	12	4	12	s.	Miss M. W. C. Sheridan.
Springfield	Clarke	1,002	16	.....	.....	.....	.....	.....	.....	.....	4.84	+ 2.50	1.20	.....	11	9	9	10	s.	W. A. Webster.
Summerfield	Noble	1,187	4	27.8	.....	53	28	− 8	19	41	5.09	.....	1.15	18.8	13	8	8	12	sw.	H. R. McClintock.
Thurman	Gallia	696	17	31.0	− 0.2	64	27	5	19	36	3.24	+ 0.45	0.75	14.0	8	7	9	12	w.	D. D. Thomas
Urbana	Champaign	1,031	40	24.4	− 0.7	48	2	−10	19	44	4.24	+ 1.94	1.10	40.9	10	11	4	13	sw.	Prof. J. H. Williams.
Warren	Trumbull	900	21	24.2	− 1.0	47	28	−14	19	52	5.29	+ 2.26	1.53	39.5	13	8	9	11	sw.	M. D. McCorkle.
Waverly‖	Pike	500	27	30.6	− 1.7	58	2	− 9	19	48	4.47	+ 0.91	1.30	17.2	10	14	2	12	sw.	David Lorbach.
Waynesville	Warren	700	25	26.7	+ 0.1	52	2	− 7	19	37	4.51	+ 1.57	1.40	22.0	6	9	6	13	w.	Charles Michener.
Wooster	Wayne	1,030	30	23.8	− 2.0	48	16	−12	19	47	4.41	+ 1.52	1.30	28.5	11	5	3	20	sw.	Experiment Station.
Youngstown	Mahoning	846	18	.....	.....	.....	.....	.....	.....	.....	3.99	+ 1.05	1.10	29.3	12	10	0	18	w.	G. R. Patton.
Zanesville	Muskingum	700	23	.....	.....	.....	.....	.....	.....	.....	4.96	+ 2.38	1.41	21.0	12	12	3	13	s.	S. G. Sprague.
Virginia.																				
Big Stone Gap	Wise	1,540	19	37.0	+ 2.1	68	27	3	14	42	3.80	− 0.71	1.00	8.0	7	13	5	10	n.	John W. Fox, sr.
Blacksburg	Montgomery	2,170	19	30.9	− 0.6	63	16	5	19	44	2.43	− 0.89	0.79	3.5	9	13	3	12	w.	Agricultural Exp. Station.
Burkes Garden	Tazewell	3,250	15	29.9	+ 1.0	56	16†	− 2	19	42	3.00	− 0.76	0.90	6.0	8	9	5	14	w.	C. H. Greever.
Elk Knob	Lee	3,243	7	35.2	.....	63	27	6	13	30	3.79	.....	1.07	8.0	9	13	5	10	nw.	Henry Nicoll.
Galax	Grayson	2,300	2	32.3	.....	58	28	7	19	42	3.48	.....	1.20	8.0	7	13	7	8	s.	E. C. Williams.
Ivanhoe** ‖	Wythe	2,028	6	32.5	.....	56	16†	8	19	32	2.06	.....	0.75	8.8	13	14	6	8	w.	Miss Alice G. Jewett.
Lebanon	Russell	2,131	..	35.8	.....	65	27	7	13	38	2.89	.....	0.90	4.0	7	13	8	7	sw.	R. D. Swain.
Marion	Smyth	2,224	15	34.1	− 1.4	65	27	8	13†	44	2.56	− 0.94	0.57	7.0	8	10	10	8	sw.	S. W'n State Hospital.
Max Meadows	Wythe	2,028	14	33.2	+ 2.3	58	16	8	7†	39	1.61	− 1.44	0.80	8.0	6	15	3	10	w.	James M. Graham.
Mendota	Washington	1,350	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Frank M. Baker.
Radford	Montgomery	1,773	4	.....	.....	.....	.....	.....	.....	.....	1.94	.....	0.72	6.0	5	.....	.....	.....	.....	Arthur Roberts.
Speers Ferry	Scott	1,221	14	.....	.....	.....	.....	.....	.....	.....	3.88	− 0.86	1.16	9.0	10	.....	.....	.....	.....	Mrs. L. E. Venable.
Wytheville	Wythe	2,293	17	32.8	− 0.6	63	16	8	19	33	1.87	− 0.57	0.77	8.5	9	14	3	11	w.	U. S. Weather Bureau.
North Carolina.																				
Andrews	Cherokee	1,800	....	40.2	.....	64	27	10	13	43	4.56	.....	1.20	1.0	9	13	7	8	sw.	J. D. Link.
Asheville	Buncombe	2,250	31	35.9	− 2.6	60	15	11	13	37	2.39	− 2.26	0.67	4.6	8	13	3	12	nw.	U. S. Weather Bureau.
Banners Elk	Watauga	3,750	2	30.6	.....	55	28	1	19	40	3.88	.....	0.80	14.6	11	15	0	13	w.	T. L. Lowe.
Brevard	Transylvania	2,230	9	37.0	.....	66	22	− 1	13†	46	5.58	.....	1.15	8.0	9	15	6	7	s.	W. E. Breese.
Bryson City	Swain	2,000	22	.....	.....	.....	.....	.....	.....	.....	4.20	− 1.33	0.99	5.0	10	.....	.....	.....	.....	D. K. Collins.
Cullowhee	Jackson	2,100	....	38.0	.....	69	23	− 1	14	50	4.09	.....	1.19	5.0	9	12	4	12	nw.	F. H. Brown.
Hendersonville	Henderson	2,167	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. W. Valentine.
Highlands	Macon	3,670	20	33.0	− 2.1	61	23	2	13	35	7.56	− 0.93	2.75	5.0	9	13	7	8	nw.	T. G. Harbison.
Hot Springs	Madison	1,326	12	40.4	− 1.4	69	16	11	14	40	2.72	.....	0.67	5.2	10	14	4	10	w.	P. A. Garner.
Jefferson	Ashe	2,800	3	34.0	.....	59	2†	6	19	43	3.18	.....	0.80	10.5	10	12	2	14	w.	E. J. Johnson.
Marshall	Madison	1,646	9	38.6	.....	66	16	9	14†	54	2.02	.....	0.76	6.0	6	.....	.....	.....	.....	W. E. Finley.
Murphy	Cherokee	1,614	34	.....	.....	.....	.....	.....	.....	.....	2.85	− 3.29	0.90	5.0	7	.....	.....	.....	.....	Miss J. Campbell.
Rock House	Macon	3,100	18	36.3	− 0.9	68	23	5	13	33	8.32	+ 1.03	3.07	6.1	11	12	3	13	se.	B. C. Hawkins.
Waynesville	Haywood	2,756	16	30.7[a]	− 5.9	62	17†	− 3	13	38	3.39	− 1.01	1.35	5.5	9	15	4	9	sw.	J. C. L. Gudger.
Georgia.																				
Diamond	Gilmer	2,020	19	40.9[a]	+ 0.3	66[a]	23	14[a]	13†	40	4.28	− 3.34	1.58	T.	10	11	4	13	.....	R. A. Kimsey.
La Fayette	Walker	871	3	39.6	.....	66	28	14	13	40	4.91	.....	1.67	1.3	9	13	4	11	w.	Ralph A. Snow.
Alabama.																				
Bridgeport	Jackson	660	10	.....	.....	.....	.....	.....	.....	.....	4.92	− 0.59	1.47	7.5	10	11	2	15	n.	Miss Maggie Rinkle.
Decatur	Morgan	573	28	39.8	− 2.4	68	15	11	13†	56	5.58	+ 0.44	1.90	1.0	12	8	2	18	n.	Ernest A. Carriger.
Florence	Lauderdale	563	26	39.8	− 3.1	65	16	− 2	13	43	5.54	+ 0.45	2.18	12.0	8	11	12	5	n.	G. H. Smith.
Guntersville	Marshall	580	5	40.4	.....	66	16	15	13	40	3.68	.....	0.88	0.3	13	12	1	15	e.	L. S. Long.
Madison	Madison	573	16	40.6	− 1.4	64	15†	7	13	40	5.36	+ 0.33	2.05	4.5	10	14	5	9	se.	Albert Klish.
Riverton	Colbert	360	13	35.6	− 4.0	66	16	− 4	12	48	4.60	− 0.29	1.70	7.0	10	8	2	18	n.	Ernie J. Moore.
Scottsboro	Jackson	652	27	41.2[a]	0.0	65[a]	16†	12[a]	13	38[a]	4.14	− 1.48	1.44	1.0	7	.....	.....	.....	.....	Miss Irene Caldwell.
Tuscumbia	Colbert	488	28	37.2	− 4.9	62	15	2	13	38	5.46	+ 0.29	2.00	9.5	10	8	0	20	nw.	Samuel Moore.
Tennessee.																				
Ashwood	Maury	725	31	36.7	− 4.6	61	27	−10	13	42	4.41	− 0.20	2.11	12.5	4	8	4	16	s.	Mrs. J. W. Fleming.
Benton	Polk	880	25	41.0	− 1.2	68	16†	15	7†	37	4.01	− 0.85	1.29	T.	6	11	3	14	n.	G. L. Williams.
Byrdstown	Pickett	1,026	17	.....	.....	64[a]	27	12[a]	18†	35[a]	3.40	− 1.06	1.50	8.0	4	.....	.....	.....	.....	John Lacy.
Carthage	Smith	500	26	39.8	− 0.2	66	20	3	13	40	4.25	− 0.37	1.85	8.4	13	13	0	15	ne.	E. C. Pickering.
Cedar Hill	Robertson	625	10	36.4	.....	62	15	2	18	35	4.17	.....	1.20	15.5	10	12	3	13	n.	J. F. Ruffin.
Chattanooga	Hamilton	808	31	41.0	− 2.7	64	16	16	13	35	4.23	− 0.71	1.56	2.6	10	10	5	13	n.	U. S. Weather Bureau.
Clarksville	Montgomery	520	47	36.8	− 3.5	63	15	4	18	33	4.50	+ 0.26	2.00	12.2	10	11	6	11	n.	Prof. Jas. A. Lyon.
Decatur	Meigs	850	14	38.6[a]	− 0.3	65	16	8	13	38	4.33	− 1.14	1.24	6.0	9	13	3	12	sw.	J. W. Lillard.
Dickson	Dickson	800	14	35.7	− 1.6	64	15	2	13†	38	3.26	− 0.86	1.10	9.0	7	9	7	12	s.	N. R. Sugg.
Dover	Stewart	.....	15	35.0	− 2.7	63	15†	−12	18	42	4.56	.....	1.84	10.5	6	10	6	12	n.	A. M. Tippit.
Dunlap	Sequatchie	726	1	39.9	.....	64	22	5	13	39	4.26	.....	1.53	3.5	8	11	8	9	.....	S. B. Boyd.

TABLE 1.—*Climatological data for February, 1910. District No. 3*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Tennessee—Cont'd.																				
Elizabethton	Carter	1,575	20																	Lee F. Miller.
Erasmus	Cumberland	1,850	13	34.6	− 0.8	62	16	1	14	46	4.73	− 0.10	1.73	9.8	10	14	5	9	se.	Mrs. E. D. Ashley.
Florence	Rutherford	560	28	36.9	− 3.6	63	27	− 7	13	38	4.04	− 0.63	1.60	12.0	5	13	6	9	n.	Erastus P. Bell.
Franklin	Williamson	655	20	35.9	− 3.2	61	27	− 6	13	36	4.60	+ 0.32	2.06	11.0	6	16	2	16	.....	J. L. Parkes, jr.
Harriman	Roane	841	15	37.5	+ 0.4	63	16	11	14	36	4.06	− 0.54	1.75	4.5	6	14	3	11	.....	Robert R. Ayers.
Hohenwald	Lewis	983	24	35.6[d]	− 3.6	59	15†	−13	13	38	4.51	− 0.39	1.82	10.0	9	11	7	10	s.	John Lutzelman.
Iron City	Lawrence	.....	13	37.8	− 1.9	64	21	−10	13	48	4.36	− 0.27	1.95	10.0	8	5	18	5	s.	Capt. H. P. Seavy.
Johnsonville	Humphreys	364	14	38.3	− 1.7	63	16	−11	13	46	4.38	+ 0.05	1.50	13.8	8	11	3	14	n.	Miss Sallie B. Matthews.
Jonesboro	Washington	1,740	15	38.4	+ 0.8	70	27	10	8†	46	.....	.....	.....	.....	.....	19	3	6	ne.	Robert A. Lovegrove.
Knoxville	Knox	977	39	39.0	− 1.8	66	16	16	13	37	4.19	− 0.71	1.13	4.1	8	12	7	9	sw.	U. S. Weather Bureau.
Lebanon	Wilson	522	1	37.9	.....	68	28	6	18	38	4.78	.....	2.10	8.6	7	8	5	15	n.	Logan Fields.
Lewisburg	Marshall	727	15	37.2	− 2.8	61	15†	−10	13	45	4.42	− 0.14	2.17	12.2	10	11	6	11	s.	Dr. R. D. Crutcher.
Lynnville	Giles	770	22	35.8	− 4.3	62	27	− 9	13	41	4.65	− 0.49	1.87	11.0	6	14	10	4	n.	Col. J. H. Burrow.
McMinnville	Warren	1,011	26	38.7	− 2.3	65	16	1	13	40	4.57	+ 0.50	1.73	10.8	12	8	9	11	s.	J. T. Sparkman.
Maryville	Blount	1,050	14	40.8	+ 1.6	70	27	15	13†	32	4.56	− 0.28	1.46	5.0	8	12	9	7	w.	Mrs. F. E. Benedict.
Mountain City	Johnson	2,486	13	34.4	+ 2.5	65	16	0	1	47	2.90	− 1.09	1.08	5.0	7	17	4	7	.....	E. E. Barry.
Nashville	Davidson	654	39	37.6	− 3.5	62	27	6	18	32	4.87	+ 0.55	2.24	8.9	11	10	6	12	nw.	U. S. Weather Bureau.
Newport	Cocke	1,280	20	38.6	− 0.9	67	16	15	7†	36	3.55	− 0.45	1.00	1.0	5	18	1	9	w.	Dr. C. T. Burnett.
Palmetto	Bedford	770	17	37.6	− 1.8	62	27	− 8	13	40	4.71	+ 0.57	2.35	14.0	6	11	7	10	n.	Mrs. Ross Woods.
Pinewood	Hickman	.....	3	35.7[a]	.....	65[a]	15	−15[a]	13	51[a]	4.13[a]	.....	1.62[a]	6.7[a]	9[a]	14	4	10	n.	Miss Carrie Cash.
Pope	Perry	.....	13	35.2	− 3.1	60	15	− 7	13	37	.....	.....	.....	9.0	.....	13	2	13	n.	Miss Bessie Howard.
Rogersville	Hawkins	1,150	25	38.6	+ 0.2	71	27	1	14	42	2.58	− 1.91	0.70	4.0	8	13	4	11	w.	Fred. Beal.
Rugby	Morgan	1,410	22	34.2	− 2.6	61	16	3	13	48	4.89	− 0.38	1.67	9.5	9	9	7	12	n.	S. G. Wilson.
Savannah	Hardin	442	26	38.9[b]	− 2.7	62[b]	15†	− 2[b]	13	36[b]	4.30	− 0.49	1.50	9.5	5	15	5	8	.....	J. A. Spencer.
Sevierville	Sevier	.....	4	38.8	.....	70	16†	11	7	40	4.33	.....	1.65	4.0	9	11	6	11	sw.	H. O. Eckel.
Sewanee	Franklin	2,000	14	36.6	− 1.0	59	16	8	13	38	5.86	+ 0.63	2.50	5.5	6	11	0	17	n.	University of the South.
Sparta	White	920	4	38.4	.....	63	16	0	13	45	2.52	.....	1.25	8.2	7	14	3	11	w.	E. H. Hull.
Springdale	Claiborne	1,058	20	37.5	− 1.3	69	27	0	14	43	4.60	− 0.44	1.55	8.0	8	8	7	13	w.	Mrs. Lucy E. Breeding.
Springville	Henry	377	7	34.8	.....	63	16	−11	13	46	4.34	.....	1.79	7.1	11	14	3	11	n.	H. A. Boden.
Tullahoma	Coffee	1,075	22	37.0	− 2.3	63	16	−10	13	48	5.21	+ 0.90	2.10	9.0	13	9	10	9	s.	R. T. Moore.
Waynesboro	Wayne	753	24	38.1	− 2.4	61	15	−10	13	45	4.67	+ 0.35	1.82	10.5	7	12	4	12	n.	H. C. Boyd.
Wildersville	Henderson	.....	13	35.6[a]	− 2.5	65[a]	17	3[a]	19	32[a]	2.70[a]	− 0.82	1.50[a]	19.0[a]	4[a]	12	4	12	n.	W. R. Wilson.
Yukon	Lincoln	850	13	37.9	− 1.4	62	28	5	13	40	4.56	+ 0.03	2.10	7.5	7	10	6	12	n.	W. P. Watson.
Kentucky.																				
Alpha	Clinton	.....	16	39.4	+ 1.8	62	27	12	19	33	5.14	+ 1.03	2.00	18.0	7	12	4	12	w.	W. W. Hicks.
Anchorage	Jefferson	700	9	30.4[a]	.....	58[a]	2	−12[a]	18	49[a]	6.18	.....	2.50	17.0	8	11[a]	6[a]	10[a]	sw.	C. E. Barrett.
Bardstown	Nelson	637	14	32.4	− 0.6	61	27	− 1	19	38	4.81	+ 1.38	1.00	16.5	9	13	1	14	sw.	G. M. Talbott.
Beattyville	Lee	650	7	32.6	.....	66	27	3	13†	57	5.12	.....	1.08	15.0	13	7	5	16	w.	G. W. Cann.
Beaver Dam	Ohio	441	7	31.2	.....	60	15	− 8	19	50	5.10	.....	2.10	12.0	7	14	1	13	nw.	T. S. Woodward.
Berea	Madison	1,070	9	33.6	− 1.3	58	28	2	19	39	4.49	+ 0.94	1.50	17.2	9	15	2	11	sw.	C. F. Rumold.
Bowling Green	Warren	500	21	35.4	− 1.4	63	15	2	18	38	5.11	− 0.96	1.65	13.5	13	12	1	15	s.	Mrs. L. G. Causey.
Burnside	Pulaski	773	20	.....	.....	.....	.....	.....	.....	.....	4.34	− 0.06	1.00	9.5	9	11	2	15	.....	G. M. Estes.
Cadiz	Trigg	.....	8	37.8	.....	60	15†	4	19	33	5.97	.....	1.75	.....	10	.....	.....	.....	.....	F. T. Street.
Calhoun	McLean	397	7	34.2	.....	59	15†	− 5	18	32	5.16	.....	2.52	10.5	8	8	8	12	n.	W. A. Taylor.
Catlettsburg	Boyd	544	17	.....	.....	.....	.....	.....	.....	.....	3.44	− 0.13	0.90	10.0	10	13	2	13	n.	Chas. N. Bruns.
Earlington	Hopkins	370	21	32.6	− 3.8	61	15	− 8	18	41	4.72	+ 0.72	2.17	7.0	9	13	1	14	nw.	J. B. Atkinson.
Edmonton	Metcalfe	600	19	35.2	− 1.2	61	15	1	19	35	5.93	+ 1.59	1.87	5.5	9	10	4	14	.....	Miss Lee Ray.
Eubank	Pulaski	1,177	16	32.2	− 0.8	62	27	5	13†	49	3.87	− 0.51	1.45	11.6	13	12	1	15	se.	W. H. Henderson.
Falmouth	Pendleton	530	21	.....	.....	.....	.....	.....	.....	.....	5.11	− 1.87	1.50	17.0	11	12	2	14	w.	J. V. Oldham.
Farmers	Rowan	668	5	33.2	.....	66	27	− 1	19	43	3.47	.....	0.73	11.0	10	8	8	12	w.	Miss Gertrude Sorrell.
Frankfort	Franklin	560	20	32.4	− 2.2	59	28	− 2	19	35	4.15	− 0.59	1.36	12.5	11	15	4	9	s.	Gustave Schaefer.
Franklin	Simpson	691	17	35.8	− 2.0	62	15	1	18	36	4.37	− 0.81	1.07	12.0	8	10	7	11	s.	J. E. Newman.
Greensburg	Green	581	18	31.1	− 2.2	61	27	1	19	47	4.59	− 0.46	1.45	8.5	11	12	0	16	se.	L. C. Alcorn.
Highbridge	Jessamine	762	8	.....	.....	.....	.....	.....	.....	.....	3.99	.....	1.24	8.2	11	16	1	11	.....	Miss Lulu Wood.
Hopkinsville	Christian	524	14	34.6	− 0.6	64	15†	− 1	13	51	3.72	+ 0.22	1.10	12.5	8	12	0	16	ne.	W. F. Randle.
Irvington	Breckinridge	.....	12	33.6	+ 1.3	57	16†	− 3	18	36	6.01	+ 3.64	2.63	10.5	10	13	2	13	s.	W. J. Piggott.
Leitchfield	Grayson	635	15	33.0	+ 1.1	60	27	− 2	18	37	4.54	+ 0.94	1.86	11.5	.....	12	6	10	.....	John E. Stone.
Lexington	Fayette	989	23	31.4	− 4.2	60	27	4	18	30	4.11	+ 0.88	1.55	8.9	11	7	8	13	s.	U. S. Weather Bureau.
Loretto	Marion	681	13	33.5	+ 1.0	61	27	− 1	18†	38	2.89	− 0.63	1.50	9.0	7	17	3	8	.....	Loretto Academy.
Louisville	Jefferson	525	38	33.0	− 3.6	58	16	5	18	35	5.62	+ 1.22	2.62	17.4	12	9	8	11	s.	U. S. Weather Bureau.
Marion	Crittenden	.....	16	33.2	− 2.2	59	15†	− 4	18	35	5.30	+ 1.90	3.17	10.0	4	10	5	13	.....	B. C. Paris.
Maysville	Mason	524	14	29.2	− 4.0	58	2	2	19†	53	5.45	+ 2.76	1.22	12.6	12	15	3	10	nw.	Mrs. Mary D. Marsh.
Middlesboro	Bell	1,128	17	39.0	+ 0.9	65	16†	8	14	40	4.33	− 1.04	1.40	.....	7	20	4	4	.....	B. H. Perkins.
Mt. Sterling	Montgomery	930	21	32.4	− 0.9	64	27	8	19	28	5.02	+ 0.75	1.19	13.1	9	10	9	9	s.	James O'Connell.
Owensboro	Daviess	479	14	31.2	− 2.9	57	15	5	19†	41	3.72	+ 0.94	1.50	10.0	8	14	1	13	se.	Henry S. Berry.
Owenton	Owen	700	14	29.8	− 1.2	55	28	1	18	28	7.15	+ 2.96	.....	15.0	.....	1	16	11	.....	J. T. Walker.
Paducah	McCracken	341	18	.....	.....	.....	.....	.....	.....	.....	3.24	− 0.22	2.00	7.5	8	16	0	12	n.	S. A. Fowler.
Pikeville	Pike	.....	1	.....	.....	.....	.....	.....	.....	.....	2.31	.....	0.76	11.5	9	8	6	14	.....	A. R. Williams.
Richmond	Madison	926	21	34.0	− 0.9	63	27	7	13†	33	3.45	− 0.19	0.84	.....	12	13	1	14	.....	J. W. Crooke.
St. John	Hardin	777	14	29.4	− 2.4	59	27	− 7	18	40	5.48	+ 2.20	1.77	9.6	9	16	2	10	.....	Bethlehem Academy.
Scott	Kenton	.....	13	30.2	+ 1.6	54	2†	− 6	19	38	5.23	+ 3.15	1.95	19.5	9	9	6	13	s.	E. B. Wilson.
Shelby City	Boyle	1,087	16	32.2	− 0.2	61	27	0	19	42	4.95	+ 1.65	1.61	13.0	11	13	3	12	w.	W. E. Grubbs.
Shelbyville	Shelby	759	21	28.8	− 5.2	58	27	−10	19	48	4.40	− 0.77	1.25	16.6	9	6	12	10	s.	Dr. H. W. Preissler.
Taylorsville	Spencer	422	8	31.2	.....	59	27	− 8	19	40	5.41	.....	1.22	13.0	10	11	5	12	se.	E. D. Bourne.
Williamsburg	Whitley	939	13	36.2	− 0.1	65	28	11	7†	47	4.31	+ 0.75	1.30	5.2	10	12	0	16	w.	Noble C. Jones.
Williamstown	Grant	943	8	27.1	.....	56	27	0	18†	41	5.26	.....	1.43	14.2	10	13	0	15	.....	Mrs. Sarah E. Carter.
Indiana.																				
Anderson	Madison	892	15	27.0	− 0.1	51	16	− 7	18	31	2.89	+ 0.69	0.88	20.3	9	11	6	11	s.	W. H. Stanton
Bloomington	Monroe	744	15	25.4	− 4.1	60	15	− 7	18†	49	4.37	+ 0.55	1.46	22.6	12	13	4	11	n.	Earl E. Ramsey.
Bluffton	Wells	835	15	25.0	+ 0.2	51	15	− 6	18	33	2.15	− 0.13	0.70	.....	10	8	11	9	n.	Prof. P. A. Allen.
Butlerville	Jennings	767	25	29.2	− 2.1	54	16	− 2	18	35	4.40	+ 0.63	1.18	26.8	9	12	6	10	n.	C. F. Hole.
Cambridge	Wayne	941	19	23.4	− 2.7	50	15†	−23	19	57	3.40	+ 0.73	1.47	21.5	10	12	1	15	s.	Charles Lemberger.
Columbus	Bartholomew	632	27	26.4	− 3.7	56	15	−14	19	45	4.02	+ 0.87	1.20	25.0	10	14	1	13	sw.	John A. Perry.
Connersville	Fayette	769	28	26.4	− 2.6	52	2	−14	19	48	3.02	− 0.17	1.28	24.4	10	9	5	14	nw.	C. C. Hibbs.
Delphi	Carroll	668	25	24.0	− 1.7	53	15	−12	19†	44	2.27	− 0.17	0.84	9.3	9	6	8	14	.....	Higginbotham & Son.
Eminence	Morgan	782	4	27.3	.....	54	15†	−10	18	42	4.20	.....	1.40	21.7	7	16	6	6	w.	Dr. E. E. Kelso.
Evansville	Vanderburg	386	34	32.4	− 3.4	58	15	1	18	24	2.99	− 0.07	1.10	13.3	13	9	10	9	s.	U. S. Weather Bureau.
Farmersburg	Sullivan	.....	12	28.1	− 0.4	57	15†	−17	18	33	3.57	+ 0.98	1.10	19.0	7	15	4	9	sw.	Maurice Yeager.
Farmland	Randolph	1,101	28	25.2	− 3.1	48	15†	− 4	18	36	3.23	+ 0.33	0.90	.....	11	10	2	16	w.	W. J. Davisson.
Greenfield	Hancock	905	7	26.4	.....	47	2	− 4	18	30	3.34	.....	1.10	21.5	7	5	17	6	s.	Prof. W. C. Goble.
Greensburg	Decatur	954	14	28.4	+ 0.1	53	16	− 4	18	33	4.34	+ 1.12	1.26	26.0	10	12	3	13	sw.	Chas. H. Ewing.
Heltonville	Lawrence	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. L. Palmer.
Huntingburg	Dubois	.....	2	32.0	.....	57	15	−12	18†	50	3.01	.....	1.25	13.5	5	.....	.....	.....	.....	H. Dufendach.
Huntington	Huntington	741	17	26.8	+ 2.4	51	16	− 5	18	33	2.00	− 0.50	0.80	7.4	10	10	4	14	nw.	Chas. McGrew.
Indianapolis	Marion	822	39	26.8	− 3.9	55	15	− 2	18	24	4.00	+ 0.92	1.58	21.0	11	8	9	11	s.	U. S. Weather Bureau.
Jeffersonville	Clark	455	28	32.1	− 2.7	57	15†	− 3	19	39	5.86	+ 1.96	2.56	17.3	10	12	8	8	s.	John C. Loomis.
Judyville	Warren	.....	3	24.9[a]	.....	55[a]	15	−23	18	38[a]	1.35	.....	0.74	7.5	5	13	7	8	nw.	Dale R. Warrick.

TABLE 1.—*Climatological data for February, 1910. District No. 3*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Indiana—Cont'd.																			
Kokomo	Howard	840	18	26.5	+ 1.0	52	16†	− 7	18	33	2.80	+ 0.72	0.85	11.8	8	9	7	12	sw.	John W. Doty.
Lafayette	Tippecanoe	617	31	24.4	− 2.6	55	15	−10	18	39	2.07	− 0.72	0.80	9.4	9	13	0	15	s.	Wm. J. Jones, jr.
Logansport	Cass	620	30	25.9	− 0.4	53	15	− 6	18	39	2.15	− 0.52	0.91	6.0	8	12	0	16	e.	Chas. Massena.
Madison	Jefferson	460	18	32.2	0.0	55	20†	− 3	19	38	5.26	+ 1.94	1.91	20.5	9	12	6	10	sw.	Dr. J. Cooperider.
Marengo	Crawford	363	28	28.8	− 5.4	57	15†	−20	18	47	4.82	− 0.89	1.72	17.0	10	10	7	11	w.	J. M. Johnson.
Marion	Grant	814	24	28.6	− 0.2	51	16	− 8	18	31	3.05	+ 0.57	0.99	15.6	11	6	9	13	nw.	James F. Hood.
Markle	Huntington	814	15	25.6	+ 1.7	51	16	− 8	18	35	2.70	+ 0.48	0.90	12.0	6	13	7	8	sw.	I. S. Shideler.
Mauzy	Rush	980	30	26.2	− 1.5	50	16	− 7	18	36	4.00	+ 0.43	1.23	21.4	10	11	7	10	nw.	Elwood Kirkwood.
Moores Hill	Dearborn	.....	9	28.2	.....	52	16	− 5	19	35	4.04	.....	1.20	24.8	10	14	2	12	sw.	W. S. Bigney.
Mount Vernon	Posey	410	24	32.2	− 1.6	55	4	2	18	33	3.80	+ 0.71	1.24	19.0	9	16	0	12	n.	Chas. M. Spencer.
Paoli	Orange	611	13	31.3	+ 0.9	56	15	−22	18	49	2.74	− 0.64	1.00	18.5	8	13	5	10	nw.	James A. Gillum.
Princeton	Gibson	481	28	29.9	− 2.4	59	15	−12	18	36	2.20	− 1.24	1.50	20.0	3	15	6	7	.....	Elisha Jones.
Richmond	Wayne	972	25	25.4	− 2.9	50	2	−15	19	44	3.73	+ 1.10	1.34	22.4	11	11	5	12	.....	Walter Vossler.
Rochester	Fulton	775	7	26.5	.....	50	15†	− 4	18†	32	1.36	.....	0.58	4.7	5	11	6	11	.....	G. P. Keith.
Rockville	Parke	722	24	27.4	− 1.4	48	2	−11	18	28	2.16	− 0.33	0.90	13.0	9	10	6	12	s.	Dr. W. N. Wirt.
Rome	Perry	370	7	34.0	.....	59	15†	−10	18	44	5.43	.....	2.35	14.0	9	14	3	11	w.	Adam Anspach.
Salamonia	Jay	.....	5	25.0	.....	51	2	− 6	18	31	2.52	.....	0.74	18.5	10	8	5	15	sw.	Chas. V. Skinner.
Salem	Washington	717	17	29.4	− 2.0	57	16	−19	18	52	4.17	+ 0.49	1.73	17.5	9	13	6	9	sw.	Emmet S. Allen.
Scottsburg	Scott	570	16	31.6	− 0.3	57	16	− 7	19	40	4.88	+ 1.75	1.60	21.0	10	12	6	10	w.	Frank H. Park.
Seymour	Jackson	610	23	29.8	− 1.7	58	16	−11	19	48	3.65	+ 0.02	1.14	18.1	9	10	10	8	nw.	J. Robt. Blair.
Shelbyville	Shelby	.....	6	26.6	.....	49	16†	− 7	18	33	3.93	.....	1.07	26.5	9	8	12	8	s.	B. F. Crouch.
Terre Haute	Vigo	498	20	29.8	− 0.8	58	16†	− 4	18	37	2.88	+ 0.29	0.96	10.6	8	12	4	12	s.	Prof. R. G. Gillum.
Veedersburg	Fountain	612	11	28.1	+ 1.7	56	15	−19	18	37	2.92	+ 0.66	0.76	13.0	9	14	7	7	s.	L. A. Culver, jr.
Vevay	Switzerland	525	29	32.1	− 1.6	57	27	− 4	19	38	4.20	+ 0.12	2.00	21.0	7	10	7	11	nw.	Miss Frederica Boerner.
Vincennes	Knox	431	18	27.8	− 1.8	58	15	−10	19	42	3.51	+ 0.50	1.30	25.5	9	15	3	10	s.	Garrett V. List.
Washington	Daviess	484	14	28.4	− 2.2	56	15	− 5	18	37	3.42	+ 0.36	1.15	13.7	9	15	2	11	nw.	Homer B. Turrell.
Whitestown	Boone	.....	2	25.0	.....	51	15	− 7	18	31	2.91	.....	0.88	19.0	8	7	12	9	n.	C. A. Stevenson.
Winona Lake	Kosciusko	.....	3	25.8	.....	51	15	− 5	18	32	2.11	.....	0.64	7.1	14	5	13	10	n.	Rev. Albert A. Young.
Worthington	Greene	526	28	26.4	− 4.7	56	15	−17	18	42	3.78	+ 0.17	1.05	18.5	10	11	10	7	s.	D. W. Solliday.
Illinois.																				
Albion	Edwards	531	19	30.0	− 1.4	59	15	− 7	18	37	3.84	+ 0.86	1.27	13.8	8	12	5	11	s.	B. F. Michels.
Charleston	Coles	720	25	28.4	− 0.8	59	15	−14	18	32	2.92	− 0.32	1.39	14.1	10	8	7	13	s.	Jacob B. Daisy.
Equality	Gallatin	421	12	33.4	0.0	60	15†	− 8	18	38	3.80	+ 0.50	1.40	20.0	7	13	6	9	s.	Dr. L. W. Gordon.
Fairfield	Wayne	495	17	30.8	− 1.1	61	15	−17	18	39	3.87	+ 1.52	1.42	19.5	6	14	1	13	nw.	Geo. A. Tromly.
Flora	Clay	495	24	29.4	− 1.2	59	2	−18	18	42	3.66	+ 0.88	1.60	19.0	8	11	8	9	nw.	Jos. S. Peak.
Golconda	Pope	500	32	31.4	− 4.6	58	8	−15	18	41	3.99	+ 0.04	1.88	9.4	9	10	5	13	nw.	Dr. D. Lawrence.
Hoopeston	Vermilion	715	8	27.0	.....	55	15	−11	18	35	1.86	.....	0.39	7.1	11	13	4	11	.....	S. F. Hoskinson.
McLeansboro	Hamilton	462	27	28.2	− 5.3	60	15	−12	18	41	3.09	− 0.28	1.33	10.0	6	13	4	11	nw.	C. C. Judd.
Martinsville	Clark	630	22	27.4	− 2.4	56	15	−15	18[a]	36[a]	2.20	− 0.15	1.00	15.0	7	8	9	11	n.	G. M. Daugherty.
Mount Carmel	Wabash	424	9	27.8[a]	.....	56[b]	15	−10	18	39[b]	4.04	.....	1.20	19.8	10	.....	.....	.....	.....	Mrs. H. M. Phillips.
New Burnside	Johnson	556	15	32.0	− 1.4	60	15	− 6	18	38	3.05	+ 0.06	1.95	11.0	4	10	7	11	n.	Geo. Harris.
Olney	Richland	486	23	30.4	− 1.8	61	15	−13	18	33	3.57	+ 0.63	1.10	18.5	8	9	7	12	s.	Victor E. Phillips.
Palestine	Crawford	500	28	29.4	− 1.1	58	15	−10	18	44	3.67	+ 0.42	1.20	19.5	7	9	9	10	nw.	Duane Shaw.
Paris	Edgar	600	17	24.4	− 2.8	56	15	− 7	18	41	2.82	+ 0.54	1.20	15.0	5	10	11	7	sw.	H. P. Twyman.
Philo	Champaign	700	26	25.2	− 1.2	58	15	−22	18	38	1.84	− 0.56	0.96	6.5	8	11	5	12	n.	H. A. Burr.
Rantoul	....do	768	19	27.0	+ 2.6	57	15	−10	18	34	1.54	− 0.54	0.74	5.5	8	14	4	10	nw.	Wm. Breiner.
Robinson	Crawford	500	10	31.9	+ 1.6	59	14†	−10	18	44	3.35	+ 0.21	1.30	22.5	6	.....	.....	.....	.....	A. P. Woodworth.
Sumner‡	Lawrence	459	2	29.9	.....	59	15	−21	18	37	3.20	.....	1.20	19.0	6	9	2	17	nw.	O. A. Fyffe.
Tuscola	Douglas	644	17	24.8[c]	− 0.9	62[c]	15	−14[c]	18	36[c]	2.48	+ 0.30	1.10	11.0	7	10	1	17	s.[c]	E. W. Lester.
Urbana‡	Champaign	725	8	25.2	.....	59	15	−12	18	27	1.79	.....	0.60	8.3	8	4	19	5	s.	Prof. J. G. Mosier.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 3, Ohio Valley.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
New York.																																	
Allegany	Allegheny		.10	.32		.04	.01			.20	.18		1.14	.18	*	.02	.08	.65	.52			.24	.08	.33				.54	.38				5.01
Bolivar	do			.23	T.	.03	T.			.17	.10		.89	.07			.08	.61	.44			.11	.25	.04				.48	.55				4.05
Franklinville	do			.52		.05	T.	T.		.05	.34		.81	.12	.10	T.	.05	.44	.33			.04	.05	.10				.80	.65				4.45
Olean	do	.01			.24						.24	.12	.94	.08	.01	.01		.52	.60			.08	.12	.18				.24	.90				4.29
Pennsylvania.																																	
Aleppo	Ohio			.25			.02			.12	T.	.20	.90	.12			.20	.82	.30			.22	.20					.12	.40				3.87
Baldwin	Allegheny			.26		T.	T.			.22	T.	.05	.91	.40			.40	.70	.40			.15	.15	.05					.34				4.03
Beaver Dam‖	Ohio	T.		.10	.12	T.	T.	T.			.21	T.	.80	.07	T.	T.	.08	.81	.35			.08	.26	.02				.10	.72				3.72
Bradford‖	Allegheny	.01		.25		.02	.02			.23	.08		.64	.13	T.	.50	.13	.55	.27			.14	.11	.07				.70	.66				4.51
California	Monongahela																																
Clarion‖	Allegheny																																
Claysville	Ohio			.15	T.					.16	T.	.12	.90	.06			.38	1.01	.43			.16	.17					.30	.67				4.51
Confluence‖	Youghiogheny	.04	T.		.26			.02			.20	.01	.54	.12	.01			.14	.34	T.		.08	.40	.06				T.	.14				2.36
Davis Island Dam‖	Ohio	T.		.03	.10		T.	T.			.16	T.	1.05	.10	T.		.04	.79	.39	T.		.05	.20	T.				.11	.65				3.67
Derry Station	Allegheny			.24						.15		.15	.55	.08			.27	.58	.16			.25	.26						.58				3.27
Franklin‖	do	T.		.22	.26	T.	.02				.22	T	.76	.16	.01	T.	.12	.74	.56			.14	.10	.06				.12	.76				4.25
Freeport‖	do			.08	.14	.02					.19		.94	.20			.07	.72	.55			.14	.12					.13	.73				4.03
Greensboro‖	Monongahela	.02			.20		.02	T.			.14	T.	.50	.04				.22	.52	T.		.08	.46	.02				.04	.32				2.58
Greensburg	Youghiogheny			.13	.04	T.	T.			.13	T.	.37	.40	.03			.33	.63	.15			.13	.22	T.				.15	.42				3.13
Greenville	Ohio			.42	T.	T.	T.	T.		.26	.07	.16	.58	.10			.25	.78	.12			T.	.06	T.				.78	.19				3.77
Grove City	do			.30	.07		.12			.02	.05	.02	1.08	.47			.51	.71	.34			.08	.04	.02				.30	.40				4.53
Herrs Island Dam‖	Allegheny	T.		.04	.10			T.	T.		.15	T.	1.25	.05	T.		.02	.86	.54	T.		.05	.12	.03				.06	.58				3.85
Indiana	do			.10						.08	.10	.20	.80	.60			.10	.80				.10	.10					.52	.55				4.05
Irwin	Monongahela	T.		.15	.02					.14	T.	.33	.21	T.			.37	.62	.12			.08						.46	.45				2.95
Johnstown	Allegheny	.02		.02	.16	.01	.01	.02			.10	.02	.84	.22	.02	.01		.32	.44	.05		.18	.26	.02	.01			.04	.36				3.13
Lock No. 4‖	Monongahela	.04		.02	.16		T.	T.			.10	T.	.85	.10			T.	.65	.48	T.		.05	.25					.05	.50				3.25
Lycippus	Allegheny			.13	.13			.01		.11	.17	.08	.52	.21			.31	.61	.16			.25	.30					.12	.50				3.61
Parkers Landing‖	do	T.		.10	.16		.02				.20	T.	1.00	.50	T.	T.	.12	.50	.30	T.		.12	.14	.10				.48	.90				4.64
Pittsburg	Ohio	T.		.12		T.	T.			.14	.01	.98	.26	.02	T.		.63	.71	.01			.04	.12	T.				.35	.21				3.60
Saegerstown	Allegheny																																
St. Marys	do			.12		.08							.80				.30	.32	T.			.20	.30					.11	.14				2.37
Saltsburg‖	do	.02	T.	.04	.16	.01	T.	T.			.20	T.	.92	.18	.02	T.	.01	.78	.46	.01	T.	.06	.24	.01	T.			.06	.80				3.98
Skidmore	Ohio												.90				1.00	1.20				.50						.25	.35				4.20
Somerset	Youghiogheny	.08		.20	.16		.13			.20	.08	.75	1.20	.41			.16	.05	.02	T.		.38	.12					.10	.05				4.09
Springdale‖	Allegheny			.07	.14			.05			.16		1.20	.12			.04	.94	.42			.05	.21	.04				.12	.78				4.34
Uniontown	Monongahela			.18		T.	T.			.20	.04	.30	.66	.20			T.	.33	.06			.33	.36					.42	.36				3.44
Warren	Allegheny			.32			.08				.20	.10	1.00			.08	T.	1.00				.04	.16					.40	.38				3.76
West Newton‖	Youghiogheny	T.		.08	.06						.32		1.06	.12			.02	.26	.42	.06		.04	.36	T.				.08	.50				3.38
Maryland.																																	
Deer Park	Youghiogheny				.20		.20			.40	.10	.50	.60					.62	.10			.30	.50						.20				3.72
Grantsville	do			.05			.10					.40	.70	.20			.17	.19	.10			.31	.28					.05	.06				2.61
Oakland	do			.20			.03			.34	.18	.42	.18	.12			.03	.38	.06			.16	.48		.18			T.	.02				2.78
West Virginia.																																	
Arbovale	Great Kanawha																																
Bancroft‖	do			T.	.40		T.			T.	.20		1.20	.05				.25	.45			.14	.53					.07					2.29
Beckley	do			.61			.30		.10	1.00		.60	.20					.75	.10			.35						.50					4.51
Ben's Run	Ohio			.40						.17		1.00	.30	.06			.35	.92	.08			.34	.30					.12	.41				4.45
Bluefield	Great Kanawha			.03						.29		.60	.60						.01			.23	.21						.60				2.57
Brandonville	Monongahela			.15							.75		.85	.70			.10		.15		.10	.60	.52		T.				.11				4.03
Buckhannon	do			.35	.10		.20			.30		.50	.50	.10				.30	.20				.35						.35				3.25
Cairo	Little Kanawha																																
Central Station	Middle Island Creek	T.		.49	.02		T.		T.	.12	T.	.43	.52	.05			.10	.54	.21			.31	.37					T.	.35				3.51
Charleston‖	Great Kanawha	.10			.40					.05	.28		.92					.14	.44	T.		.04	.64						.08				3.09
Creston‖	Little Kanawha	.02		T.	.55		.03			T.	.17		1.30	.05	T.		T.	.24	.38	T.		.14	.35	T.	T.				.24				3.47
Cuba	Sand Creek			.50			T.		T.	.12		.60	.60	T.			.20	.10	.07			.23	.20		T.			.07	.35				3.04
Davis	Monongahela																																
Doane	Big Sandy																																
Elizabeth	Little Kanawha																																
Elkhorn	Big Sandy			.12			T.		T.	.17		.67	.14	T.					T.			.09							1.22				2.41
Elkins	Monongahela	T.		.24	.01	T.	.08	T.	T.	.41	T.	.22	.16	.01			T.	.19	.03		.04	.17	.39	T.	T.				.27				2.22
Fairmont	do	T.			.26		T.				.30	T.	.90	.10	T.		T.	.18	.20	.04		.12	.46	T.				.02	.14				2.72
Glenville‖	Little Kanawha			T.	.40		.05				.28		1.20	.10	T.	1.18		T.	.42	T.		.20	.66					T.	T.				4.49
Grafton	Monongahela			.61	.05		.05		T.	.48		.60	.50	.15			.04	.41	.25			.52	.74		T.				.40				4.80
Green Sulphur Springs	Great Kanawha			.37		T.		T.		.23		.41	.24	T.				T.	T.			T.	.12						.65				2.02
Hinton‖	do	.04			.04		.04	.01		.08	.12		.48	.04					.14	.01		.06	.22						.08				1.36
Huntington‖	Ohio	.02		T.	.10						T.		.24					.20	.88			.28	.44						.24				2.40
Lewisburg	Great Kanawha	.02		.30	T.		.02		.03	.11		.25	.12	.02			.11		T.		T.	.32	.12						.67				2.09
Logan	Guyandotte			.32	T.		T.		.10	.30		.70	.30	T.	.55		T.	.65	.10			T.							1.55				4.57
Lost Creek	Monongahela			.27		T.			T.	.21	T.	.41	.43	.04			.03	.16	.05			.14	.51		T.				.18				2.43
Madison	Great Kanawha																																
Mannington	do			.29	.04		T.			.15	.03	.37	.60	.08			.15	.47	.18			.28	.31					.12	.35				3.42
Marlington	do			.10					.10	.25		.30	.50					.50			T.	.30							.70				2.75
Morgantown	Monongahela			.22						.12	T.	.40	.50	T.			.12	.39	T.			.26	.32					T.	.30				2.63
Moundsville	Ohio			.06						.21	.01	.12	.60	T.			.25	.98				.56	.15					.18	.62				3.74
New Cumberland	do	.40								.30		.40	.55	.05			.90	.30	.20			.10	.20					1.10					4.50
New Martinsville	do			.32						.12	T.	.58	.42	.12			.31	.85	.14			.27	.22					.15	.45				3.95
Nuttallburg	Great Kanawha			T.	.15		.10		T.	T.		.35	.10					.05	.10			T.	.05						.08				0.98
Parkersburg	Ohio			.30		.01	T.		T.	.12	T.	1.12	.09	T.			.31	.37	T.		.02	.27	.19	T.				.07	.55				3.42
Parsons	Monongahela	T.		.20			.10			.10		.80		.40			T.					*	.45						.15				2.20
Philippi	do			.70	.15		.25		.02	.47	.04	.55	.27	.09			.04	.18	.15			.30	.55		.10			T.	.35				4.21
Pickens	do	.10		.60	.20		.60		T.	.56		.40	.80	1.00				.11	.20			1.04	.56						.39				6.56
Pineville	Guyandotte																																
Point Pleasant‖	Ohio			.08	.42						.10		.64	T.	T.			.66	.86			.20	.52	T.	T.			.06	.34				3.88
Powellton	Great Kanawha																																
Princeton	do			.30		.10				.40		.65	.25					.35				.44							.46				2.95
Robertsburg‖	do	.02		T.	.31					T.	.16		1.12	T.				.15	.48	.05		.24	.59						.17				3.29
Rowlesburg‖	Monongahela	.06			.32		.04				.34		.44	.48	.02			T.	.30	T.		.08	.82	.14	.04				.02				3.10
Ryan	Great Kanawha			.32	T.		.01		T.	.20	.03	.93	.23	.03			T.	.40	.08			.38	.41						.40				3.42
St. Marys‖	Ohio	.10		T.	.38						T.		1.20	.10	T.			.44	.84			.12	.52	T.				.10	.35				4.15
Smithfield‖	Fishing Creek				.37		1.00				.15		1.20	.50	.10	T.	.20	.32	.43	.10	T.	.75	.14				.09	.12	.17				5.64
Spencer‖	Little Kanawha	.05			.35					T.	T.		1.40	.15				*	.10			.52	1.16						T.				3.73
Sutton	Great Kanawha			.20		.10			T.	.15		.90		.10				.32			T.	.72							.36				2.85
Terra Alta	Monongahela			.45	.20	.12	.23			.40	.08	.42	.55	.22				.08				2.15	.08	.05				T.	.50				5.53
Union	Great Kanawha												.47				1.38		.22				.28										2.35
Valley Fork	do									.45			1.00				.90		T.										.29				2.64
Webster Springs	do	.10		.45	.25		.20		.22	.33	.10	.15	.40					.22	.15			.28		T.					.72				3.57
Wellsburg	Ohio			.18						.15	.02	.60	.60				.10	.40	.20			.20	.05					.47	.45				3.42
Weston‖	Monongahela	.10		T.	.30	T.	.14	.02		.02			.90	.30	.06			.08	.16			.06	.90	.04	.04				.06				3.18
Wheeling‖	Ohio	T.		.04	.16		T.	T.			.04	T.	1.20	.06	T.		.01	1.16	.36	T.		.04	.30	T.				.04	.36				3.77
Williamson‖	Big Sandy	T.		T.	.26		T.			.26	.20		.90	T.				T.	.66	T.		T.	.46						.24				2.98
Ohio.																																	
Amesville	Ohio			.14	.02		T.			.18	T.	.28	.73	.05			.34	1.23	.18			.28	.16					.26	.37				4.22
Bangorville	Muskingum			.35		T.	T.			.50		.30	.30	.20			.90	1.10	T.			.18	.05	T.			.05	.98	.35				5.26
Bellefontaine	Great Miami			T.		T.	T.		T.	.90		.04	.47					1.31				.05	T.					.94	.22				3.93

TABLE 2.—*Daily precipitation for February, 1910. District No. 3*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Ohio—Cont'd.																																	
Bladensburg	Muskingum			.25						.25		.15	.65				.65	1.00				T.	.05					.80	.45				4.25
Cadiz	Ohio			.21		T.	.02			.22	T.	.78	.44	.17	T.		.92	.90	.10			.21	.13	T.				.73	.75				5.58
Cambridge	Muskingum			.11						.25		.20	1.30				.75	.85				.10						1.07	.70				5.33
Camp Dennison	Ohio			.15			T.			.27		.23	.20				.42	.90	.02			.14	.11					1.76	.45				4.65
Canal Dover	Muskingum			.30			.10			.10			1.00	.30			.33	1.20					.05						.45				3.80
Canton	...do			.26		.02				.35		.24	.28				1.26	.81	.19			.09	.07					.64	.28				4.49
Cardington	Scioto			.45			T.			.33		.12	.68				.50	1.10	.10			.15	T.				T.	1.13	.40				4.96
Cincinnati	Ohio		.01	.09			T.			.22		.44	.04				.76	.90			.06	.13	.08				.07	1.90	T.				4.70
Circleville	Scioto			.12					T.	.10		1.46				T.		2.00				.20	.15					1.25	.68				5.96
Clarington	Ohio	.02		.22	.07		.01			.21	.02	.10	1.40	.10			.20	1.40	.20			.25	.20					.20	.80				5.40
Columbus	Scioto		T.	.12		T.				.28	T.	.78	.28			T.	1.21	.74				.08	.04				T.	1.47	.05				5.05
Coshocton‖	Muskingum			.17	.02						.01		.06				.25	1.56				.20	.08					.35	1.01				3.71
Dayton	Great Miami		T.	.25						.41		.37	.26				1.25	.95					.04					1.10	.03				4.66
Delaware	Scioto	T.		.28		T.	T.			.33	T.	.30	.44				.92	1.02	.02			.08	.07	.01			.01	1.01	.07				4.56
Demos	Ohio			.33						.03	.02	.39	.71	.10			.02	.20				.06	.02					.29	.19				2.36
Dennison	Muskingum			.22						.25	T.	.22	1.44				.68	1.05	.29			.16	.09					.73	.57				5.70
Frankfort	Scioto																																
Garrettsville	Mahoning			.46		.01	.03			.32	.04	T.	.57	.16	T.		.22	.58	.34			.04	.04	.09				.56	.48				3.94
Granville	Muskingum			.35						T.	T.	.03	1.00				1.70	.80	.20			T.	.10					1.15	.65				5.98
Gratiot	...do			.10						.08	.01	.30	.70				.45	.40	.10			.20	.10					1.33	.63				4.40
Green	Ohio																																
Green Hill	Muskingum			.26	T.	T.	T.			.23	T.	.29	.45	.07	T.		.52	.73	.02			.08	.03					.52	.32				3.52
Greenville	Great Miami			.12						.50		T.	.29				*	1.70				.20	*	.05			T.	.93	.12				3.91
Hillsboro	Scioto			.02			T.		T.	.30		.88	.19	.04			1.08	1.18	.02			.28	.13	T.				1.86	.48				6.46
Ironton	Ohio			.16						.12		.80	.30				.13	1.10	.03			.38	.34						.33				3.69
Jacksonburg	Great Miami																																
Kenton	Scioto																																
Killbuck	Muskingum			.30						.15		.02	.10				.55	1.08				T.	T.					.75	.58				3.53
Lancaster	Ohio			T.	T.				T.	T.		.80	.25	.08			.63	1.30	.20			T.	.10				T.	1.39	.46				5.21
Lawshe	...do			T.						.60			.70				.33	1.70										1.40	.90				5.63
McConnelsville	Muskingum			.29			.02	T.			.04	T.	.73	.43			.23	1.71				.10	.08				T.	1.09	.02				4.74
Marietta	Ohio			.25						.13	T.	.58	.34	.02			.27	1.20	T.			.40	.21					.09	.60				4.09
Marion	Scioto			.42						.49		*	1.02				*	1.10	1.04			.08	.05					1.10	.43				5.73
Milfordton	Muskingum			.26		T.				.20		.16	.80				.37	1.60	.10									.90	.45				4.84
Milligan	...do	.04		T.			T.			T.		.45	.20				.65	.30										1.08	.65				3.37
Millport	Ohio			.21		T.	T.			.18	.02	.05	.35	.07	T.		.40	.75	.15			.14	.02	T.				.45	.40				3.19
Nellie	Muskingum			T.						.10		.20	.90				.25			.80		.05						.75	.60				3.65
New Alexandria	Ohio			T.						T.	T.	.30	1.10	.20	T.		.20	.40	T.			.50	T.					.30	T.				3.00
New Berlin	Muskingum			.27		T.				.35		.10	.50			.06	1.00	.75	.10			.08	T.	T.				.43	.40				4.04
New Waterford	Ohio			.15						T.	*	*	1.20			*	*	1.70					.10						.35				3.50
Ohio State University	Scioto			.21						.21		.75	.35				.65	.55	.05				.03					1.10	.21				4.11
Patasakala	Muskingum			.18		T.	T.		T.	.26	T.	.30	.38	.02			.76	1.20				.25	.10	T.				1.12	.72				5.29
Philo(1)	...do			.08						T.	T.	.52	.62				.34	1.24					.04					.82	.70				4.36
Plattsburg	Great Miami			.60		T.				.30		.20	1.00				.60	.80					.10					.85	.10				4.55
Pomeroy	Ohio		.05	.44			T.			.04	T.	.89	.14				.28	1.20				.38	.26					.07	.44				4.19
Portsmouth‖	...do			.18	.21		.01			T.	.13		1.10	.04			*	1.63	.53			.16	.33					.13	.72				5.47
Rittman	Muskingum			.10		T.				.30		.30	.30				.40	1.00						.10				.45	.29				3.54
Shenandoah	...do			.27			.05			.34		.34	.15	.02			.40	.31				.15						1.24	T.				3.27
Sidney	Great Miami			.26		.01	T.			.47		.12	.27	T.			.98	.63	.04					T.				.97	.24				3.99
Somerset‖	Muskingum	.03		T.	T.		T.				T.	.08	.60	.09			.04	1.02	.40			.17	.06					.44	1.40				4.33
Springfield	Great Miami			.30		T.				.38		.42	.37	.02			1.00	1.20	.01			T.	.13				T.	.94	.07				4.84
Summerfield	Ohio			.32			T.			.18	.02	.40	.74	.09		T.	.29	1.15	.34			.34	.15					.43	.64				5.09
Thurman	...do			.44						T.		.79	.59				.25	.20				.30	.10						.75				3.24
Urbana	Great Miami			.14		.02				.40		.55	.15				.84	1.10	.35					.12				.57					4.24
Warren	Mahoning	T.		.48		T.				.48	.03	.26	.98				.33	1.53	.23			.03	.06	.04				.67	.17				5.29
Waverly	Scioto			.29			T.			.14		.70	.33				.28	1.30	.09				.07					.62	.65				4.47
Waynesville	Great Miami			T.			T.			.35		.60	.36				.60	1.20										1.40					4.51
Wooster	Muskingum			.20		T.				.50		.20	.20				.45	1.30				.12	.09	.05				.90	.40				4.41
Youngstown‖	Mahoning			.16	.11		.04				.15		1.00				.10	1.10	.40	.20		.10						.06	.57				3.99
Zanesville‖	Muskingum	T.		.06	.12					*	.23	T.	.52	.10	T.		.01	1.41	.40			.18	.13	T.				.50	1.30				4.96
Virginia.																																	
Big Stone Gap	Tennessee			.30	T.					.65	T.	.75	.05	T.				.70	T.			.35						1.00					3.80
Blacksburg	Kanawha			.04					T.	.15		.38	.38					.68	.11		.20	.19	.08		T.			T.	.60				2.43
Burkes Garden	Tennessee				.90					.30		.40	.20					.30	T.			.30	.12						.48				3.00
Elk Knob	...do	T.		.26	.06				T.	.52	T.	.60	.20				T.	.68				.35	.10					1.07					3.79
Galax	Kanawha											.70	.10					1.20			.08	T.			.20		T.	.40	.80				3.48
Ivanhoe‖	...do	T.		T.	T.				T.	T.	.05	*	.75	.04				*	.55		*	.28	.14	T.	.10	.05		.03	.07				2.06
Lebanon	...do			.04	T.					.15		.30	.10						.50				.90						.90				2.89
Marion	Tennessee			.57						.19		.50	.20				.29					.35	.06						.40				2.56
Max Meadows	Kanawha			T.								.11	.15						.44		T.	.08	.04						.25				1.61
Mendota‖	Tennessee																																
Radford‖	Kanawha										.20			.72					.68			.16	.20						T.				1.94
Speers Ferry‖	Tennessee			.16	.22					.32	.18		.70	.20					1.16	T.		.16	.54						.24				3.88
Wytheville	Kanawha			.07						.04		.75	.02					.52	T.		.02	.07	.02					T.	.36				1.87
North Carolina.																																	
Andrews	Tennessee			.70						.48		.72						1.13	.07			.40	.10					.04	.92				4.56
Asheville	...do			.03					T.	T.		.58	.01	T.				.67	T.		T.	.26			T.		.06	.45	.33				2.39
Banners Elk	...do			.26					T.	.37		.80	.20	.10				.80	T.		.04	.24			.04		T.	.33	.70				3.88
Brevard	...do			.88						.30		.75						1.15			.05	.15			.15			1.05	1.10				5.58
Bryson City‖	...do			.23	.50					.23		.16	.70						.99			.21	.54					.13	.51				4.20
Cullowhee	...do			.25	T.				T.	.21		.61	.02					1.18	.09		T.	.39	T.				T.	.15	1.19				4.09
Hendersonville	...do																																
Highlands	...do			.10					.20	.30		.80						1.60			T.	.56					.50	2.75	.75				7.56
Hot Springs	...do			.57	.09					.10		.45	.02					.67	.04			.24	.04						.50				2.72
Jefferson	Great Kanawha			.06					T.	.13		.80	.25					.70	.07		.10	.12						.40	.55				3.18
Marshall	Tennessee			.14								.36	.05					.76	T.			.23							.48				2.02
Murphy‖	...do			.30						.20	.30	.25	.25						.90	.65													2.85
Rock House	Savannah			.22					.05	.37		1.30						1.68			.05	.50			.03		.05	1.00	3.07				8.32
Waynesville‖	Tennessee			.14	.12					.13	T.			.55					T.	1.35		.04		.52				.10	.44				3.39
Georgia.																																	
Diamond	Tennessee		*	.60					T.	.02	*	.73	*	.12				1.47	.11			.59	.12		T.		.04	*	.48				4.28
LaFayette	...do			.40	.40					.07		.65	.10					1.67				.27						.25	1.10				4.91
Alabama.																																	
Bridgeport‖	Tennessee			.50	.05					T.	.05	.05	.70					.40	1.07			.40	.80						.90				4.92
Decatur‖	...do			.50	.02				T.	.10	.02	.15	.10					1.90	.63			.70	.33		.45				.68				5.58
Florence	...do		T.	.31					.04			1.20						2.18				.75	.30					.61	.15				5.54
Guntersville‖	...do			.08	.04					.06	.02	.10	.54				T.	.56	.86	T.		.24	.22		.06			.02	.88				3.68
Madison	...do		T.	.40					T.	.05		.70						2.05	.05			.72	.22		.27			.50	.40				5.36
Riverton‖	...do			.35					T.	.21		.20	.50				.10	1.70				.74	.20		.12				.48				4.60
Scottaboro	...do			.37								.63						1.44	T.			.45	.24			T.	.12	.89					4.14
Tuscumbia‖	...do			.27					.06			.30	.68					2.00	.09			1.00	.27		.40				.39				5.46
Tennessee.																																	
Ashwood	Tennessee		T.	T.					T.	T.		1.20	T.				T.	1.05		2.11								.05					4.41
Benton	...do			.25					T.			.63						1.20	T.	T.		.54	.10						1.29				4.01

TABLE 2.—*Daily precipitation for February, 1910. District No. 3*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Tennessee—Cont'd.																																	
Bird's Bridge	Tennessee			.08	.51					.07			.36						.55			.02	.50						.20				2.29
Bluff City	do				.30					.10	T.		.20	T.					.54				.64						.12				1.90
Byrdstown	Cumberland											.80						1.50				.60						.50					3.40
Carthage	do			.10	.02				.05	.02	.02	.04	.70					1.85	.10			.95	.04					.10	.26				4.25
Cedar Hill	do		.05	.12						.20		1.20	.05				.15	.90				1.10						.30	.10				4.17
Celina	Cumberland			.34	.01					.05	.10		.80					1.35	.50			.84	.02					.03	.40				4.44
Center Point	Tennessee									T.	.70	.45	T.				T.	.50	.16			1.12	.10					.33	T.				3.36
Charleston	Tennessee			.10	.03					.12	.03	.06	.64	T.				T.	1.50			.30	.35					T.	.70				3.83
Chattanooga	do		T.	.30					.02	.06		.46	T.					1.56	.02			.57	.01				T.	.95	.28				4.23
Clarksville	Cumberland		.06	.13						.08		.73	.03				.22	2.00				.80						.40	.05				4.50
Clinton	Tennessee			.10	.08					.40	.10		.75					.05	1.65			.25	.45					.12	.45				4.40
Dandridge	do			.06	.60					.02	.28	.02	.40						.68			.04							.66				2.76
Decatur	do		T.	.27					T.	.23		.68	.06				T.	1.23	T.			.47	.12				T.	.03	1.24				4.33
Dickson	Cumberland	.06		.13						.04		.80					1.03	T.	.10			1.10											3.26
Dover	do		T.	.17					T.			.65					.50	1.84			T.	.36					1.04	T.				4.56
Dunlap	Tennessee			.33						.21		.73						1.53				.47					.02	.07	.90				4.26
Elizabethton	do				.60						.02		.40						.60	T.			.40	.05				T.					2.07
Erasmus	Cumberland		T.	.37					T.	.17		.91	.11				T.	1.73	.03			.42	.15				T.	.18	.66				4.73
Florence	do		T.	T.						T.		1.20	T.				.07	1.60				.90					T.	.27					4.04
Franklin	do			T.						T.		.98	.01	T.			.18	2.06				.92	T.				.45						4.60
Hall's Hill	do			.37							T.	.05	.85	T.			T.	1.40	.55			.67	.12						.37				4.38
Harriman	Tennessee			.10					T.	.27		.45		T.				1.75				.49							1.00				4.06
Hohenwald	do		.11									.55	.06				.15	1.82				1.12	.05					.35	.30				4.51
Iron City	do		T.	.37					T.			1.00					.24	1.95				.20	.07					.25	.28				4.36
Jefferson City	do			.35						.29			.34					.89				.56							1.12				3.55
Johnsonville	do		.10	T.						.03		1.20					.10	1.50	T.			.95						.42	.08				4.38
Jonesboro	do																																
Kingston	do			.12	.04					.40	.06	T.	.67					.04	1.07			.30	.29						1.00				3.99
Knoxville	do		T.	.21					T.	.25		.92	T.					1.13	T.		T.	.54	.04				T.	.04	1.06				4.19
Lebanon	Cumberland		T.	.01					T.	T.		.86	T.			T.		2.10	.38				.92	T.			T.	.15	.36				4.78
Lewisburg	Tennessee		.01	.17					T.	.02		1.20	T.				.03	2.14				.45	.16					.06	.18				4.42
Loudon	do			.22	T.					.20	.10	.10	.62						1.05			.25	.45						.65				3.64
Lynnville	do			.31								1.05					.13	1.87					T.	T.				.98	.31				4.65
McGhee	do			.30	.05					.27	.40	.03	.60						1.27			.12	.50						.70				4.24
McMinnville	Cumberland		T.	.27	T.				.07	.22		.97	.03				.03	1.73	.04			.45	.16				T.	.03	.57				4.57
Maryville	Tennessee			.54						.39		.58	.10					1.00	.04		T.	.45							1.46				4.36
Mountain City	do			.60						.03		.40	.10					1.08				.23							.46				2.90
Nashville	Cumberland		.02	.05					T.	.05		.80	T.				.66	1.83			.03	1.03					.03	.33	.04				4.87
Newport	Tennessee			.90						T.		.25						.50				.90							1.00				3.35
New River	Cumberland				.15					.32			.70					.88	1.57					.51					.90				5.03
Palmetto	Tennessee		T.	.18					T.	T.		1.40					T.	2.35				.50						.05	.23				4.71
Pinewood	do		.05	.09						.03		.57					.18	1.62				1.20						.17	.22				4.13
Pope	do																																
Rogersville	do			.04	.22					.08	.12	T.	.50	T.					.70	T.		T.	.66						.36				2.58
Rugby	Cumberland			T.					T.	.55		.70	.10				T.	1.67	.15			.35	.36					.01	1.00				4.89
Savannah	Tennessee			T.								.80					T.	1.50				1.20						.35	.45				4.30
Sevierville	do			.50	.01					.19		.32	.09					.88	.03			.66							1.65				4.33
Sewanee	do				.45					.02		.55						2.50				.75							1.59				5.86
Sparta	Cumberland		T.	.05						.05		.80	.02				T.	1.25	T.			.25	.10					T.					2.52
Springdale	Tennessee			.20					T.	.20		.50	.20				.41			.06	1.48								1.55				4.60
Springville	do		.12	.12						.05		.47	.02				.22	1.57				.60	.02					1.03	.12				4.34
Tazewell	do				.15					.28	.20	T.	.80	.05					.90	T.		.30	.47						.45				3.60
Tullahoma	do		.02	.35					.03	.03		.85	.05				.02	2.10	.17			.47	.35				T.	.27	.50				5.21
Walling	Cumberland			.30	.02					T.	.60	.20	.50	.05				1.00	.60	.01		.42	.20						.75				4.65
Waynesboro	Tennessee		T.	.24					T.	T.		.78	T.				.07	1.52				1.28						.40	.08				4.67
Wildersville	do		T.	T.								1.50	T.						.20				.20					.80						2.70
Worsham	Cumberland			.09						.06			.60					1.80		.10		.80						.11	.63				4.19
Yukon	Tennessee		T.	.23					.05			.75						2.10				1.05	.22					.16					4.56
Kentucky.																																	
Alpha	Cumberland			T.					T.	T.							T.	2.00				1.10	.05				T.	.17	.08				5.14
Anchorage	Ohio			.30						.10	.69						.69	1.50					.05					2.50	.35				6.18
Bardstown	Salt			.26	.10					T.	.40		1.00					.80				.90	.20					.45	.70				4.87
Beattyville	Kentucky	.10		.08	.18					.11	.38		1.08	.12				.94	.82			.54	.14					.15	.48				5.12
Beaver Dam	Green			.10							.20		.55	T.		T.		1.58	.45			.12	T.						2.10				5.10
Berea	Kentucky			.33					T.	.40		1.20	.02				.04	.25				1.50	.25				.50						4.49
Bowling Green	Green			.18	.10				.05	T.	.10	.03	1.20	.02				1.65	.50			.50	.10					.18	.50				5.11
Burnside	Cumberland			.22	T.					.16	.18		1.00	T.				.92	.50	T.		.74	.12					T.	.50				4.34
Cadiz	do			.21						.32		.40	.05					1.20	1.10		.50	.19						1.75	.25				5.97
Calhoun	Green		T.	.21						.22		.17					.16	1.50				.12						2.52	.26				5.16
Catlettsburg	Big Sandy	.02		.04	.12						.24		.90					.20	.90			.26	.42						.34				3.44
Earlington	Green			.10						.19			.23				.02	1.03	.54			.04	T.					2.17	.40				4.72
Edmonton	do			.38						.23		.50					.34	1.87				1.10	.08					.33	1.10				5.93
Eubank	Cumberland	.02		.14	.05					.07	.27		1.45	.02				.83	.21			.31	.22					.01	.27				3.87
Falmouth	Licking	T.		.08	.20	T.	T.			.10	.22		.60	T.			.05	1.50	.44				.26					.82	.84				5.11
Farmers	do			.14		T.				.22		.73	.20				.09	.67	.10			.50	.18					T.	.64				3.47
Frankfort	Kentucky			.19	.02					.10	.10		.70	T.			.02	1.36	.39			.27						.73	.27				4.15
Franklin	Green		.11	.16								.62					.70	1.07				.98						.24	.49				4.37
Greensburg	do	T.		.10	.07						.24		.37	.01				1.45	.47			.70	.30					.18	.70				4.59
High Bridge	Kentucky	T.		.12	.02						.20		.60	.02				1.24	.46			.39	.26					.05	.63				3.99
Hopkinsville	Cumberland		.10	.15						.22							.10	*	1.10			.35						.80	.90				3.72
Irvington	Ohio			.38						.20		.42	.11				.10	1.77				.22	.10				2.63	.08					6.01
Leitchfield	Green			.12								.75					*	1.61				.20					*	1.86	T.				4.54
Lexington	Kentucky	T.	.06						.01	.13	.66	.11				T.	.72	1.03				.44	.13				T.	.75	.07				4.11
Loretto	Salt			.06					T.	.13		.61					.28	1.50				.19						.12					2.89
Louisville	Ohio		.05	.14						.22		.55	.01			T.	.86	.92			.05	.15					1.22	2.53	.02				5.62
Marion	do		.27							.34		.20					.20	.50				.62						3.17					5.30
Maysville	do	.01		.20	.28						.26	*	.90	.02			T.	1.10	.65			.33	.14					.34	1.22				5.45
Middlesboro	Cumberland			.16						.52		*	.50					1.40				.40		.07					1.28				4.33
Mt. Sterling	Licking	T.		.05	T.		T.			.35		.80	.40					.79	1.19			.32	.39					T.	.73				5.02
Owensboro	Ohio			.32						.40	T.		.10				.20	.75	.20				T.					1.50	.25				3.72
Owenton	Kentucky			1.57								1.00	.70				.40	.80										*	2.68				*7.15
Paducah	Ohio			.10						.30			.04				.04	.20	.50									2.00	.06				3.24
Pikeville	Big Sandy	.08		T.	.16					.26	.20		.46					.01	.76	T.		T.	.08						.30				2.31
Richmond	Kentucky	.03		.12	.04					.04	.17		.84	.04			T.	.35	.50			.46	.36						.50				3.45
St. John	Salt			.14						.25			.35					1.77	.11			.35	.11					1.20	1.20				5.48
Scott	Licking			.13			T.			.26		.33	.16	T.			.43	1.31					.23					1.95	.43				5.23
Shelby City	Kentucky			.11					T.	.28		.80	.30				.11	1.61	.08			.67	.18				T.	.27	.54				4.95
Shelbyville	Salt	.05		.35	T.						.03	.30	.45	T.				.43	.41				T.					1.13	1.25				4.40
Taylorsville	do			.18						.28		.70	.20				.45	.99	.40			.32						1.22	.67				5.41
Williamsburg	Cumberland			.10	.20					.30	.15		.62					.39	1.30	T.		.12	.21						.92				4.31
Williamstown	Licking				.23					T.	.33		.45	.05				1.43	.45			.18	.09					.80	1.25				5.26
Indiana.																																	
Anderson	West Fork, White			.21			T.		T.	.30	T.		.10	T.		T.	.65	.47	.02			.12	T.	T.			.14	.88					2.89
Bloomington	do			.28	T.					.21	.24		.06	.02			.27	1.46	.30			.14	.02					.98	.39					4.37

TABLE 2.—*Daily precipitation for February, 1910. District No. 3*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Indiana—Cont'd.																															
Bluffton	Wabash			.34						.02	.09		.14					.39	.07			.08	.04					.70	.28				2.15
Butlerville	East Fork, White			.17						.41		.56	.50				.82	1.18					.12					.52	.12				4.40
Cambridge City	Whitewater			.15	.03		T.			T.	.41		.08				.18	1.47	.03				T.	.03				.55	.56				3.49
Columbus	East Fork, White			.11						.30	.20		.20				.20	1.20	.60			.08	T.					.70	.43				4.02
Connersville	Whitewater			.16			T.			.29		T.	.09	.10		T.	.48	.53	.03			.03	T.				T.	1.28	.03				3.02
Delphi	Wabash			.22						T.	.14		.08				T.	.45	.17			.22	.04	T.			T.	.84	.11				2.27
Eminence	West Fork, White			.24					.34				.15				1.21	.56				T.					.30	1.40	T.				4.20
Evansville	Ohio		.03	.18					.01	.13		.02	T.			.12	.47	.90			.01	.08	.02				.39	.63					2.99
Farmersburg	Wabash			.22						.40						.40	1.10	.40									.40	.65	T.				3.57
Farmland	West Fork, White			.20						.12	.28		.30				.24	.90	.25			.05	.03					.46	.40				3.23
Greenfield	East Fork, White			.15						.39			.05				.88	.64	T.			.13						1.10					3.34
Greensburg	do			.16			T.			.52		.03	.30	.01			1.26	.66	.14			.09	T.				T.	1.17					4.34
Heltonville	do																															
Huntingburg	Wabash			.24						.25							1.25						.09					1.18					3.01
Huntington	do		T.	.20		T.				.10	T.		.15				.15	.28	T.		T.	.10	.04	.02			.16	.80	T.				2.00
Indianapolis	West Fork, White		T.	.18						.36		.07	.08			.15	1.58	.23			.10	.03	T.				.56	.66					4.00
Jeffersonville	Ohio		T.	.18					T.	.20		.50	.01			T.	.78	1.22			.19		.07			*	2.56	.15					5.86
Judyville	Wabash			.12					T.	.06	T.		T.			T.	*	.74					T.				.40	.03					1.35
Kokomo	do			.38						.20			.10				.41	.30	T.			.18		T.				.38	.85	T.				2.80
Lafayette	do			.02						.06	.06		T.	T.			T.	.53	.30			.19	.01	T.					.80	.10				2.07
Logansport	do			.37						T.	.11		.08					.31	.08			.19							.91	.10				2.15
Madison	Ohio			.16						.26		.80					.45	1.20				.14	.10					1.91	.24				5.26
Marengo	do		*	.14						.29			.30				1.07	1.20					.10				*	1.72					4.82
Marion	Wabash			.18			T.			.20	.10		.18				.23	.75	.10			.16	T.	T.			.13	.99	.03				3.05
Markle	do			.40						.20			.30				T.	.70	T.			.20	T.				T.	.90	T.				2.70
Mauzy	East Fork, White			.16			T.		T.	.60	T.	.02	.20	.02			1.17	.50	T.			.07	.03				T.	1.23					4.00
Moores Hill	Ohio			.09			T.			.30		.40	.25				.57	1.20				.05	.10					1.00	.08				4.04
Mount Vernon	do			.20					T.	.10	T.		T.				.16	1.00	.60			.10	.20					1.24	.20				3.80
Paoli	East Fork, White			.08						.20			.05				.57	.75				.01	.08					1.00					2.74
Princeton	Wabash									.50								1.50										.20					2.20
Richmond	Whitewater		.07	.08		T.				.39		.12	.09			.07	1.21	.24			T.	.06	T.				.06	1.34					3.73
Rochester	Wabash									.04	T.		.06				T.	.08				T.	T.	T.			.50	.58					1.26
Rockville	do		T.	.21					*	.17			T.			T.	.90	.20			T.	.03		T.			.14	.50	.01				2.16
Rome	Ohio			.27						.17			.43				.52	1.31				.13	.04					2.35	.21				5.43
Salamonia	Wabash			.13						.34	T.		.19				.33	.55	.03			.11	.01	T.				.74	.09				2.52
Salem	Ohio			.20						.15		.15	T.				.60	1.00	T.			.05	.20					1.75	.07				4.17
Scottsburg	East Fork, White			.26						.24		.30	.20				.50	1.30	T.			.18	.15					1.60	.15				4.88
Seymour	do			.07						.40		.18	.05				.60	1.06				.11	.04				T.	1.14					3.65
Shelbyville	do		T.	.20					T.	.50		T.	.35	T.			1.07	.70	T.			.01	.05					1.03	.02				3.93
Terre Haute	Wabash			.16						.40			T.			T.	.96	.30			T.	.02					.26	.76	.02				2.88
Veedersburg	do			.44						.20	T.		.10			T.	.25	.75			T.	.23	T.				.17	.76	.02				2.92
Vevay	Ohio			T.			T.			.10		*	.60				*	1.50									*	2.00					4.20
Vincennes	Wabash			.40					T.	.40	.06		T.	T.			.05	1.05	.15			.10	T.					1.05	.25				3.51
Washington	West Fork, White			.10					T.	.35			T.				.25	1.15	.20			.15	.02					.85	.35				3.42
Whitestown	do			.17						.16			.14			.50	.40	.36									.30	.88	T.				2.91
Winona Lake	Wabash		T.	.25		T.	.02			.05			.07		.10		.02	.18	.04			.14	.15	.01			.42	.64	.02				2.11
Worthington	West Fork, White			.24						.16	.20		.03				.26	1.05	.18			.13					T.	1.04	.49				3.78
Illinois.																															
Albion	Wabash			.15					.03	.35							.95	.60			.24						.25	1.27					3.84
Charleston	do		.10	.07						.29		.01	T.				.88	.12			.05						1.39	.01	T.				2.92
Equality	do		.05	.15						.40			T.				.40	1.40			T.	.20		T.			T.	1.20	T.				3.80
Fairfield	Ohio			.41						.34							*	1.42									.41	1.29					3.87
Flora	Wabash		T.	.15						.35			T.			*	1.60	.15			.18		.05				.55	.63	T.				3.66
Golconda	Ohio		.06	.14						T.		T.				.31	.11	1.23				.16	.06		.04			1.88					3.99
Hoopeston	Wabash		.02	.15					T.	.06			.05				.25	.34				.04	.17	.01			.39	.38					1.86
McLeansboro	do		T.	.23													.75	.60			.06	T.	.12				T.	1.33					3.09
Martinsville	do		.10							.30							1.00	.20			.25						.25	.10					2.20
Mt. Carmel‖	do			.12	.12				T.	.50	.04		T.	T.			T.	1.20	.40			.26	.04					1.10	.26				4.04
New Burnside	Ohio									.40							.60	.10			T.		T.	T.			1.95						
Olney	Wabash		*	.30					T.	.33			T.			T.	1.10	.34			.15		T.				.85	.50					3.57
Palestine	do			.26					T.	.75			T.				1.20	.12				.07	T.				.28	.99					3.67
Paris‖	do			.20						.15			T.				.10	1.20				T.						1.17					2.82
Philo	do		.08	.09						.10			T.			T.	.48	.08			.05						.77	.19					1.84
Rantoul	do		T.	.20						.03			T.				.17	.25			.03	.12	T.				.40	.34					1.54
Robinson	do		.15								.50		T.			1.00	.40				T.	T.					1.00	.30					3.35
Sumner	do		.10							.50			T.				1.20	.20			T.						.10	1.10					3.20
Tuscola‖	do		T.	.24						.13			.05				.30	.50				.16						1.10					2.48
Urbana	do		.23	.02						.13			T.				.60	.10			.12						.49	.10					1.79

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 3, Ohio Valley.*

Date.	Pennsylvania.				West Virginia.																Ohio.							
	Greenville.		Pittsburg.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.‡‡		Morgantown.		Parkersburg.		Wheeling.‡‡		Canton.		Cincinnati.		Columbus.		Dayton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	32	15	28	19	38	21	37	17	28	14	35	20	55	16	31	16	36	18	34	19	28	14	42	15	33	11	36	9
2...	44	18	49	24	43	30	55	35	56	9	55	18	44	21	50	25	54	24	53	19	43	23	56	29	49	28	51	22
3...	40	25	46	27	42	33	50	37	42	23	45	31	44	24	46	31	50	30	40	24	41	24	43	29	41	25	47	30
4...	39	15	38	21	48	25	38	22	35	21	42	22	40	24	37	23	43	24	43	19	37	17	44	26	40	23	42	23
5...	32	16	34	16	48	31	42	22	32	23	40	19	26	20	36	25	36	26	32	21	32	15	36	24	31	19	36	24
6...	17	2	16	3	36	19	39	20	23	6	33	13	30	10	27	9	26	12	18	10	15	2	24	18	19	10	29	16
7...	26	− 6	26	2	39	11	42	8	34	− 5	35	4	39	11	28	1	33	8	30	5	27	1	41	14	34	10	37	13
8...	47	7	44	23	48	27	43	22	43	12	46	17	44	12	46	22	45	24	46	6	39	21	47	32	42	28	43	29
9...	37	23	44	26	53	31	54	31	48	26	49	25	48	28	46	34	46	30	40	23	38	22	42	26	38	24	40	26
10...	31	8	29	20	44	26	47	23	27	16	41	22	38	22	43	20	32	21	34	21	26	11	33	23	28	17	31	17
11...	26	− 5	36	19	37	21	37	19	28	10	31	15	29	23	26	15	26	17	28	10	26	4	30	24	27	18	29	7
12...	30	17	26	17	33	25	28	22	26	13	30	22	31	25	27	20	29	17	29	18	26	17	25	18	25	14	25	17
13...	29	16	23	16	34	17	32	10	24	12	30	16	30	16	24	22	27	15	29	17	22	14	32	12	24	12	28	9
14...	33	5	38	18	44	18	40	11	43	20	45	15	45	18	38	17	40	22	42	15	33	11	44	24	38	20	39	20
15...	43	28	52	38	62	36	55	36	55	43	56	30	58	25	52	35	52	38	51	12	45	31	56	42	49	36	49	35
16...	45	19	51	23	62	38	62	37	57	34	57	36	58	44	51	32	53	27	46	39	46	18	56	22	49	18	51	21
17...	21	13	31	16	40	27	60	38	54	21	38	29	32	26	32	22	27	18	23	20	18	12	23	14	20	12	22	15
18...	24	− 4	17	10	30	16	61	14	21	11	30	15	24	15	26	12	20	13	24	12	14	2	21	5	17	5	19	3
19...	30	−16	33	9	36	9	40	9	42	1	38	5	34	7	35	9	32	9	34	− 2	27	− 8	31	1	29	1	31	−11
20...	44	− 7	46	17	37	20	59	25	49	15	59	14	50	7	53	23	49	18	49	− 2	41	3	48	15	43	15	44	2
21...	40	30	47	35	53	28	52	27	51	43	53	38	52	25	50	42	46	38	43	2	40	30	43	34	41	31	41	32
22...	33	24	35	29	53	38	50	32	45	29	45	34	45	33	43	31	38	32	37	32	30	23	40	30	34	21	37	22
23...	28	6	33	11	42	26	45	30	35	22	35	24	31	25	36	19	33	19	27	18	23	5	30	11	26	8	33	6
24...	20	−10	22	7	36	22	44	26	35	19	38	20	33	20	38	11	26	12	30	9	16	− 7	24	8	21	3	23	3
25...	26	−13	31	4	41	18	45	17	40	12	39	14	39	15	33	7	32	12	53	8	22	− 7	35	10	28	5	31	3
26...	46	11	53	30	61	25	50	29	53	22	56	21	60	15	58	21	55	25	48	8	45	14	52	31	48	21	47	22
27...	46	38	55	47	70	52	65	38	61	44	71	51	70	32	65	47	64	48	53	20	47	41	56	38	49	35	46	37
28...	44	34	53	41	60	53	60	42	57	50	65	50	55	51	61	50	55	41	46	41	47	33	47	36	43	34	41	33
29...																												
30...																												
31...																												
Mns	34.0	11.0	37.0	20.3	45.4	26.5	47.6	25.0	40.9	20.2	44.2	22.9	42.3	21.8	40.6	22.9	39.5	22.8	37.9	15.9	31.9	13.8	39.3	21.8	34.5	18.0	36.7	17.3

Date.	Ohio.				Virginia.								Tennessee.														Beattyville, Ky ‡‡	
	Marion.		Waverly.		Big Stone Gap.		Wytheville.		Asheville, N. C.		Decatur, Ala.‡‡		Chattanooga.		Jonesboro.		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynesboro.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	35	5	40	6	41	8	35	16	43	16	50	20	47	23	30	23	41	20	50	20	53	18	52	15	53	19	47	6
2...	48	24	58	8	53	19	52	21	59	22	50	22	48	26	56	30	51	24	52	30	49	30	57	20	50	35	59	7
3...	42	18	47	32	48	34	41	27	51	29	50	30	51	34	44	26	45	32	49	35	48	32	48	35	49	34	43	18
4...	41	22	45	31	42	24	36	23	36	24	58	29	47	30	36	22	44	29	48	28	47	24	43	21	46	26	50	17
5...	35	20	39	25	43	36	38	27	42	27	53	25	52	34	40	32	50	30	52	33	52	24	48	20	54	24	45	18
6...	37	10	33	19	39	22	28	14	32	18	42	23	40	28	37	24	36	22	38	24	44	25	39	22	44	35	30	18
7...	36	6	40	9	47	13	45	12	49	13	53	22	47	22	42	26	44	19	49	20	51	17	52	14	50	26	48	7
8...	43	25	44	22	40	28	43	26	45	32	53	23	47	40	56	10	48	32	55	40	52	38	53	25	55	36	47	11
9...	37	26	38	30	47	32	52	29	59	31	59	23	57	32	59	28	53	32	54	30	55	33	55	32	54	32	49	25
10...	33	11	36	9	40	25	35	21	39	24	43	29	42	27	44	23	39	28	43	23	41	19	45	21	41	16	41	11
11...	29	7	29	15	34	24	24	19	33	23	35	33	34	28	43	24	34	28	34	27	33	26	37	25	33	29	30	15
12...	27	18	30	19	34	25	28	11	34	12	36	23	34	20	36	25	32	17	27	19	29	16	30	27	31	12	28	23
13...	26	9	29	16	30	9	22	11	28	11	36	11	37	16	37	23	31	16	34	14	32	− 8	31	0	35	−10	35	3
14...	36	16	43	18	41	3	37	13	45	15	67	11	50	23	44	24	44	22	49	17	48	12	49	4	51	9	47	8
15...	43	31	53	34	52	18	50	30	60	26	68	27	62	39	59	32	57	34	61	45	61	40	59	38	61	43	60	17
16...	44	20	57	37	57	37	63	36	59	40	65	28	64	53	68	30	66	55	60	34	61	47	63	55	60	39	60	44
17...	32	13	37	17	56	44	57	32	54	26	41	37	59	24	58	34	61	24	35	13	51	22	61	23	39	15	33	29
18...	22	− 1	25	3	54	12	32	11	26	16	36	11	33	19	36	21	27	19	28	6	28	9	29	14	36	17	23	13
19...	31	− 4	38	− 9	44	12	36	8	40	11	41	16	47	19	46	10	41	18	40	15	48	15	55	14	43	11	43	3
20...	44	12	53	4	54	20	36	17	42	24	63	21	47	31	58	22	52	27	54	29	55	30	59	27	55	33	63	6
21...	41	32	50	41	53	35	46	34	51	35	56	34	51	38	49	29	49	38	53	40	56	40	57	42	52	47	50	18
22...	32	18	41	31	56	44	53	38	58	38	60	41	62	46	54	39	60	44	50	34	53	36	54	36	53	37	54	35
23...	30	6	38	14	51	34	49	29	57	31	50	35	52	37	44	26	51	34	41	28	46	27	49	32	46	28	53	26
24...	23	0	31	10	44	28	31	24	46	29	50	27	54	36	47	33	48	32	43	25	43	24	47	25	43	25	53	20
25...	27	− 2	38	8	53	22	50	22	54	26	60	27	57	30	56	25	53	28	54	23	58	21	60	21	55	23	50	14
26...	43	18	51	21	58	29	40	24	36	26	59	44	51	39	60	42	59	38	58	45	55	35	60	32	55	44	59	11
27...	44	39	51	40	68	48	56	37	56	35	61	45	61	49	70	44	66	49	62	43	62	43	61	42	60	50	66	27
28...	42	32	51	36	66	50	59	48	59	56	65	53	63	54	69	43	59	54	52	39	58	45	62	52	55	41	58	49
29...																												
30...																												
31...																												
Mns	35.8	15.4	41.6	19.5	48.0	26.1	41.9	23.6	46.2	25.6	52.1	27.5	49.9	32.0	49.2	27.5	47.9	30.2	47.3	27.8	48.9	26.4	50.5	26.2	48.5	27.7	47.3	17.8

TABLE 3.—*Maximum and minimum temperature at selected stations, February, 1910. District No. 3—Continued.*

Date.	Kentucky.										Indiana.											
	Bowling Green. ‡‡		Earlington. ‡‡		Greensburg. ‡‡		Lexington.		Louisville.		Maysville. ‡‡		Williamsburg. ‡‡		Butlerville.		Evansville.		Indianapolis.		Kokomo.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
2	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
3	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
4	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
5	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
6	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
7	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
8	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
9	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
10	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
11	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
12	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
13	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
14	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
15	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
16	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
17	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
18	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
19	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
20	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
21	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
22	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
23	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
24	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
25	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
26	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
27	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
28	38	25	41	23	39	23	39	25	42	28	43	28	39	25	38	23	43	28	39	24	38	23
Mns	46.6	34.3	43.4	21.8	44.3	17.9	40.0	22.9	41.8	24.1	41.1	17.2	46.1	24.2	38.6	19.0	40.5	24.3	35.0	18.7	35.6	17.4

Date.	Indiana.								Ohio.							
	Rockville.		Worthington.		Philo, Ill.				Cincinnati.		Cleveland.		Columbus.		Sandusky.	
	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	39	24	41	23	41	22			42	28	38	24	40	26	38	24
2	39	24	41	23	41	22			42	28	38	24	40	26	38	24
3	39	24	41	23	41	22			42	28	38	24	40	26	38	24
4	39	24	41	23	41	22			42	28	38	24	40	26	38	24
5	39	24	41	23	41	22			42	28	38	24	40	26	38	24
6	39	24	41	23	41	22			42	28	38	24	40	26	38	24
7	39	24	41	23	41	22			42	28	38	24	40	26	38	24
8	39	24	41	23	41	22			42	28	38	24	40	26	38	24
9	39	24	41	23	41	22			42	28	38	24	40	26	38	24
10	39	24	41	23	41	22			42	28	38	24	40	26	38	24
11	39	24	41	23	41	22			42	28	38	24	40	26	38	24
12	39	24	41	23	41	22			42	28	38	24	40	26	38	24
13	39	24	41	23	41	22			42	28	38	24	40	26	38	24
14	39	24	41	23	41	22			42	28	38	24	40	26	38	24
15	39	24	41	23	41	22			42	28	38	24	40	26	38	24
16	39	24	41	23	41	22			42	28	38	24	40	26	38	24
17	39	24	41	23	41	22			42	28	38	24	40	26	38	24
18	39	24	41	23	41	22			42	28	38	24	40	26	38	24
19	39	24	41	23	41	22			42	28	38	24	40	26	38	24
20	39	24	41	23	41	22			42	28	38	24	40	26	38	24
21	39	24	41	23	41	22			42	28	38	24	40	26	38	24
22	39	24	41	23	41	22			42	28	38	24	40	26	38	24
23	39	24	41	23	41	22			42	28	38	24	40	26	38	24
24	39	24	41	23	41	22			42	28	38	24	40	26	38	24
25	39	24	41	23	41	22			42	28	38	24	40	26	38	24
26	39	24	41	23	41	22			42	28	38	24	40	26	38	24
27	39	24	41	23	41	22			42	28	38	24	40	26	38	24
28	39	24	41	23	41	22			42	28	38	24	40	26	38	24
Mns	39.0	24.0	41.0	23.0	41.0	22.0			42.0	28.0	38.0	24.0	40.0	26.0	38.0	24.0

Climatological Data for February, 1910.

DISTRICT No. 4, LAKE REGION.

Prof. HENRY J. COX District Editor.

GENERAL WEATHER CONDITIONS.

The "old fashioned" winter which was referred to in the January REVIEW as having set in early in December continued over the Great Lakes Basin and the St. Lawrence during February, although extremely low temperatures were seldom reported and the monthly mean temperatures at several stations were actually above the seasonal average. The ground, however, remained covered with snow, hard and compact and often in the form of ice, over practically the entire district, although in the Lake Michigan and Lake Huron sections there was a marked deficiency in the amount of snowfall. The usual number of storms crossed the region and, as a rule, they increased in energy as the lower Lakes were approached, causing, as a consequence, in eastern sections unusually heavy snows which reached or approached record proportions in sections of New York and Vermont. While the precipitation of the month was mostly in the form of snow, the storm of the 26-28th was accompanied by general rains in the southern Lake region and the St. Lawrence Valley, thus producing in those sections rapid melting and a well marked rise in the various streams, approaching in some instances the flood stage. The various disturbances were generally not accompanied by high winds, and the storm of the 15-16th was the only one attended by heavy gales. The cloudiness in the upper Lake region was much less than the average for the month of February, but in the lower Lake region it was considerably above.

TEMPERATURE.

The moderate temperature which prevailed at the close of January continued during the first few days of February throughout the district, except in the Lake Champlain watershed, where the month opened with minimum temperatures below zero. During the month there was a succession of warm and cold periods, each of a few days duration, and the month, as a whole, was seasonably cold, except for brief periods. The lowest temperatures of the month occurred on the 23d-25th, except in New York State, where they were lowest on the 5-7th. The following are among the lowest temperatures reported in the various sections: Floodwood, Minn., −40°; Crandon, Wis., −28°; Ewen, Mich., −38°; Chicago, Ill., −6°; Hillhouse, Ohio, −14°; Nehasane, N. Y., −36°; Wells, Vt., −24°. The highest temperatures occurred about the middle of the month, and exceeded 50° in portions of the southern Lake region.

PRECIPITATION.

The Lake Superior Basin was visited during the month by the usual number of snowstorms, but in the remaining portions of the upper Lake region there was a marked deficiency in the amount of precipitation. In fact, along the shores of southern Lake Michigan it was the smallest amount in any February in more than 30 years. From western Ohio eastward to the Green Mountains of Vermont there was a marked increase in precipitation, the snowfall in many instances in Ohio and portions of New York and Vermont exceeding all previous records and, as a result, causing extensive blockades in those sections. The heaviest falls of snow occurred in the storms of the 11-13th and 16-17th, and there were also extensive rains in the southern and eastern sections during the storm of the 26–28th. In northern Ohio during the storm of the 16-17th snowfalls of from 12 to 15 inches were reported, while in New York State during the storm of the 11-13th, the fall was even greater. The largest amount of rain and melted snow for the month was 9.06 inches at Adams Center, N. Y., where precipitation occurred on 25 days. The distribution of precipitation geographically was very uneven, there being great differences in amounts between places in close proximity. For instance, the snowfall at stations near the St. Lawrence River hardly reached the average, while in the district lying directly to the south the falls were excessive and, in fact, unprecedented. The periods of precipitation were well distributed through the month in all sections.

MISCELLANEOUS.

The following extracts from reports of Weather Bureau officials furnish special information supplementary to that found above:

Minnesota.—At the beginning of the month the harbor ice averaged 26 inches in thickness. At this time there was no ice in the lake. By the 14th harbor ice averaged 27.5 inches in thickness, and there was some broken ice in the lake. On the 16th there were some fields extending out about 20 miles. The arrival of the tug *Mayflower* at 9:30 p. m., the 17th, with fish from north shore points marked the close of local navigation. The Booth boats had, however, laid up on January 27. Between the latter date and February 17 there were no arrivals or departures. On the 21st the lake ice extended beyond vision, some of this ice being 7 inches thick; in the harbor at this time the ice averaged 29 inches in thickness. On the 25th harbor ice averaged 32 inches, with a solid field of lake ice extending more than 30 miles. On the 18th the harbor ice still averaged 32 inches, and that in the lake 12 inches. The outside ice then extended solid 20 miles with large fields farther out. The thickness of harbor ice is much greater than usual and exceeds that of any of the previous 11 winters, with the exception of the winter of 1903–4.—*H. W. Richardson, Local Forecaster, Duluth.*

Wisconsin.—The weather was cold, the precipitation was light, and there were few severe storms during the month. The mean temperature was about 1° below the normal. During the first half of the month the temperature was between zero and the freezing point most of the time, but during the latter half the weather was considerably colder, and the minimum temperature was below zero on nearly every day except in the extreme southern section. The lowest temperature for the month occurred at most stations on the 23d. Most of the rivers were frozen over during the entire month. In the harbors along the Lake Superior shore and in Green Bay, the ice was from 12 to 20 inches thick, but from Manitowoc south along the Lake Michigan shore the steamers kept the ice broken in the harbors.—*H. B. Hersey, Section Director, Milwaukee.*

Illinois.—The month, as a whole, was slightly below the average in temperature, but divided into warm and cold periods of 3 or 4 days duration. The coldest period was from the 22d to the 24th, inclusive, with a minimum temperature of −6°. The maximum temperature was 51° on the 15th. There was a marked deficiency in precipitation, the total amount, 0.69 inch, being the lowest recorded in any February since 1877. The ground, however, remained covered with snow and ice. In fact, at the close of the month the ground had been covered continuously since December 5, 1909—a period of 12 weeks, a condition without precedent in the previous history of the station. The sunshine, in strong contrast with that of 1909, was slightly above the average, and the month was mostly pleasant, with but few storms.—*Monthly Met'l Summary, Chicago.*

Indiana.—Some rain fell on the 2d and 3d, and again on the 26th and 27th, the latter storm being quite heavy and giving nearly one-half the total precipitation of the month. The precipitation during the interval between these storms was mostly in the form of snow, the heaviest falls being recorded on the 16th and 17th. The snowfall during this storm was very light in the vicinity of Lake Michigan, but increased in amount eastward and southward over the State. The greater part of the northern counties was covered with snow during the month. The warm rain during the closing days of the month caused a rapid rise in the streams, but not to an extent sufficient to produce more slight damage.—*V. H. Church, Section Director, Indianapolis.*

Michigan.—The month was seasonably cold, with 3 well-marked cold periods, the 5–7th, 17–19th, and the 22d–25th, the lowest temperatures generally occurring during the latter period. The month was drier than usual, though not decidedly so, except in scattered localities. There was not much thawing weather during the month and the snow covering remained on the ground in all parts of the State; however, it decreased in depth owing to its settling.—*C. F. Schneider, Section Director, Grand Rapids.*

Average temperature, 3.6° below the normal for the month. More snow on the ground than at any time since January, 1894. Ice averaged about 15 inches in thickness, covered with a heavy blanket of snow.—*A. S. Burns, Observer, Sault Ste. Marie,*

Brisk southwest winds on the night of the 18–19th anchored and windrowed the ice heavily along this shore. Navigation was almost impossible for several days. All the boats were caught in the ice and

held fast from 24 to 48 hours. No boats entered or left this port between the afternoon of the 18th and late at night of the 20th. The amount of ice in the harbor increased greatly during the latter part of the month, but a narrow channel was kept broken by the boats. Since the 20th the ice fields in the lake have been shifting with the winds, causing much inconvenience to navigation but not seriously interrupting it.—*C. H. Eshleman, Observer, Grand Haven.*

Ohio.—The month, as a whole, was somewhat colder than the average. There was considerably more than the usual amount of precipitation, which occurred largely in the form of snow. The snowfall was very heavy in the greater portion of the State. The warm weather and heavy rains of the last 3 days melted the snow and caused the rivers to rise rapidly, and at the close of the month all streams were approaching dangerous stages.—*M. W. Hayes, Section Director, Columbus.*

The ice on the Maumee River here ranged from 11 to 13 inches in thickness on the 7th, 12 to 16 inches on the 14th, 8.5 to 13.5 inches on the 21st, and 9 to 15 inches on the 28th, the heaviest average being about 14 inches on the 14th. All ice cutting of consequence was completed here before the beginning of February. The ice began to soften a little on the last 3 days of the month, but previous to the 26th, it remained in practically the same condition and changed but little in thickness.—*W. S. Currier, Local Forecaster, Toledo.*

The total snowfall at this station for the past month, 18.4 inches, is the greatest recorded in any February for the past 26 years except in 1893, when the total for the month was 22.1 inches. The total snowfall for the present winter thus far is 60.0 inches. This amount is far in excess of the same period of any winter at this station during the past 26 years. The record for total snowfall for the entire winter at Sandusky is 62.9 inches, this amount occurring during the winter of 1892–3.—*E. H. Nimmo, Local Forecaster, Sandusky.*

From February 17 to 26, the ice in the lake was solid in all directions beyond vision, but during the night of February 26–27, the ice field moved off shore, leaving the southern edge about 4 to 6 miles from shore. The snowfall to date for the present season is 76.2 inches, which is greater than any amount for any complete season during the past 24 years. The greatest previous amount for any season was 69.5 inches, in 1907–8.—*James Kenealy, Local Forecaster, Cleveland.*

Pennsylvania.—The normal snowfall for February is 10.8 inches. For the past month the fall was 23 inches. The greatest amount previously recorded for any February was 21.4 inches in 1894.—*G. R. Oberholzer, Local Forecaster, Erie.*

New York.—The amount of snowfall for the month was exceptionally large, and, in many instances, surpassed all known records. Only 5 out of 49 stations reported less than 20 inches of snowfall, while 13 reported more than 40 inches. At Adams Center the amount was 85 inches. The observer, Mr. A. E. Cooley, states that the snowfall for the 3 winter months, 244.5 inches, has not been equaled for many years and exceeds the average by about 65 per cent, and that for February by at least 75 per cent, while the average depth of snow was the greatest since 1879; the amount on the ground on the 15th was 44 inches. On the same date the depth at Blue Mountain Lake, Hamilton County, was given as 45 inches; at Nehasane, 50 inches; Old Forge, 42 inches; and Volusia, 47 inches. Mr. W. H. Lennon, the observer at Brockport, Monroe County, says that the snowfall for February was greater than for any other month in the last 10 years and greater than for any February since the beginning of his records. At both Buffalo and Rochester the snowfall of the current month was the greatest known. Remarkably heavy snow attended the storm which was central near New York on the 12th. The influence of this disturbance began on the 11th and continued until the 13th. The resulting snowfall amounted to 17 inches at Oswego, 18 at Adams Center, and 33 at Palermo. Dates of other heavy storms were the 3d, 9th, 17th, and the 27–28th. In the case of the last, the high temperature and heavy rainfall reduced the snow covering to a considerable extent and the streams rose rapidly. Flood stages were reached by those of the Lake region and much damage resulted, particularly along the Genesee River in and near Rochester.—*W. M. Wilson, Section Director, Ithaca.*

The month of February, 1910, has broken all records for snowfall for any corresponding month since 1885, when the unmelted snowfall began to be recorded, the amount for the month just closed being 43.7 inches. It caused considerable trouble to railroads and trolley lines, transportation being delayed from 3 to 6 hours each day during the greater part of the month. During the snowstorm of the 11th and 12th, 16.4 inches of snow fell and some of the railroads were completely blocked for from 3 to 5 days. The total precipitation for the month, 5.74 inches, was a record breaker for the month of February. The mean temperature was slightly below the normal with a minimum of −6° on the 6th; yet no severe cold waves occurred, the month being uniformly cold. A sudden thaw occurred from the 26th to the end of the month, and with the heavy rainfall caused serious and damaging floods along the lake shore from Dunkirk eastward and along the Niagara River towns from Buffalo to Niagara Falls.—*D. Cuthbertson, Local Forecaster, Buffalo.*

Snowfall, 43 inches, greatest February record. Bulk deposited during two storms, 11–13th, and 17–18th.—*L. M. Dey, Local Forecaster, Rochester.*

At the end of February the ice in Cazenovia Lake was 16 inches thick and in Oneida Lake 18 inches thick. Ice is thicker in both lakes than last winter, and there is more snow on the lakes than in many years. February snowfall twice that of any February in past 8 years.—*M. R. Sanford, Local Forecaster, Syracuse.*

Vermont.—The portion of Lake Champlain, known as "Broad Lake," became frozen over on February 11. The ice thickened rapidly and was in condition for cutting by the last of the month. The thaw caused water to flow over the ice, a depth of 9 inches being reported at the end of the month. On February 28 the ice was 11 inches thick. Operations have been held up, although some ice suitable for storage purposes has already been harvested.—*J. K. Hooper, Local Forecaster, Burlington.*

Following is an extract from the Oswego Times, Oswego, N. Y., February 28:

The roads in the country leading to the city are in an almost impassable condition as the result of the sudden thaw. There were pitch holes enough before the rain came, but now there are many more of them and they go in deeper. Heavy teaming is practically impossible, and it is even difficult to move heavy loads on the city streets. It is reported that along the Hall road the flats are covered with several feet of water and that the road is flooded for hundreds of feet. As a result of the sudden thaw all the creeks are running bank full, and a couple of more days will mean big floods in all the lowlands. The river has risen rapidly and at the present time there is a tremendous current running. Fortunately the Oswego is a decent, well-behaved river at all times and never rises above the docks within the city limits.

TOPOGRAPHY AND DRAINAGE—WEST SHORE OF LAKE MICHIGAN.

H. B. HERSEY, Inspector.

Beginning at the southern end of Lake Michigan, the west shore is generally low until it passes into Wisconsin. It then increases in elevation as it extends northward until it forms the ridge of comparatively high land between Green Bay and Lake Michigan.

The area draining directly into Lake Michigan is small, being only a narrow strip of land parallel to the lake, averaging from 15 to 20 miles in width. It is drained by small streams generally running parallel to the lake shore for some distance and then turning eastward into the lake. The most important of these streams are the Chicago River, having its source near the Wisconsin line, and running south until it empties into the lake at Chicago,[1] and the Milwaukee River, which pursues a southerly course for about 100 miles and passes through the City of Milwaukee into the lake. For the last 35 miles of its course the Milwaukee River is only 2 to 4 miles distant from the lake, but is separated from it by a ridge having an elevation varying from 75 to 150 feet above the level of the lake. It has quite a regular fall throughout its course averaging little more than 5 feet to the mile, and a drainage area of about 840 square miles.

Continuing northward only two streams worthy of mention are crossed before reaching Green Bay. These are the Sheboygan and the Manitowoc.

The Sheboygan rises within 4 miles of the eastern shore of Lake Winnebago at an elevation of nearly 400 feet above Lake Michigan, and pursues a circuitous course to the eastward, emptying into Lake Michigan at Sheboygan. Its drainage area is about 380 square miles.

The Manitowoc rises in the range of hills about 3 miles east of Lake Winnebago, and at an altitude of about 360 feet above Lake Michigan. It winds irregularly among the hills in an easterly direction until it reaches Lake Michigan. It has a drainage area of approximately 500 square miles. During the first half of its course it has a comparatively flat gradient, averaging 2.7 feet per mile, but in the last 35 miles its fall is about 8.3 feet per mile.

All other streams in Wisconsin whose waters eventually reach Lake Michigan pass through Green Bay. The most important of these is the Fox River, which has a drainage area of nearly 6,500 square miles. Of this area about 6,000 square miles drain into Lake Winnebago, the largest lake wholly

[1] The course of the Chicago River has been changed artificially, so that it now flows through the Drainage Canal into the Illinois River instead of into Lake Michigan.

within the State. The remainder of the drainage area lies between Lake Winnebago and Green Bay.

The Fox River has its source at a point southeast of the center of the State, and flows in a westerly direction for about 20 miles until it reaches the town of Portage; here it turns north and then northeast, pursuing a circuitous northeasterly course until within a few miles west of the middle of Lake Winnebago, when it turns to the southeast and empties into the lake. Lake Winnebago is nearly 30 miles in length and its greatest width is about 10 miles. After passing through Lake Winnebago the Fox continues its northeasterly course for a distance of 35 miles where it empties into the southern end of Green Bay.

The upper Fox, as the part of the river above Lake Winnebago is known, is a sluggish winding stream having a fall of less than 0.5 of a foot per mile. It passes through several small lakes, and at Portage it runs within about a mile of the Wisconsin River, which flows in the opposite direction and empties into the Mississippi. No important branches run into the upper Fox until within a few miles of Lake Winnebago, where it is joined by the Wolf River from the north. Although this is considered as a branch of the upper Fox, it is really a much more important stream, having a discharge 3 times as great. Its source is in a region of small lakes about 25 miles south of the Michigan line, and about 1,000 feet above the level of Lake Michigan. It has a rapid fall for the first 80 miles of its course, averaging a little less than 10 feet per mile, but after passing Shawano its fall averages only about 0.5 of a foot to the mile, and its low banks allow the surrounding country to be flooded in high water, sometimes in heavy freshets to a distance of several miles. It is joined in its lower course by several tributaries from the West, the most important being the Embarrass, the Little Wolf, and the Waupaca rivers.

The lower Fox, as the river is called after leaving Lake Winnebago, follows a northeasterly course and empties into Green Bay. This stream, although short, is important, as it carries all the drainage of the Lake Winnebago region. It is quite rapid, having a fall of about 165 feet in its 35 miles. Its valley is narrow and it has no tributaries of importance. The eastern side of the valley is steep, rising abruptly from 100 to 200 feet along the eastern shore of Lake Winnebago, and continuing down to Green Bay, but the western slope is more gradual. A remarkable feature of this stream is its uniformity of flow due to the steadying effect of Lake Winnebago, with its area of 200 square miles, forming a natural reservoir.

Leaving the Fox, and going north on the shores of Green Bay the first stream met is the Oconto, which rises in the small lakes of the plateau region of northeastern Wisconsin at an elevation of nearly 1,000 feet above the Lake Michigan level, and flows in a general southeasterly direction into Green Bay. Its drainage area is not more than 450 square miles.

The next river to the north is the Peshtigo. It rises in the highest part of northeastern Wisconsin at an altitude of nearly 1,100 feet above Lake Michigan. It flows in a southeasterly direction a distance of about 95 miles and discharges into Green Bay. Its valley is narrow, giving a drainage area of about 1,125 square miles, and it has no important tributaries.

The Menominee River is the next to the north. This is a stream of considerable importance, formed by the junction of Michigamme and the Brule, and locates the boundary line between Wisconsin and Michigan for 100 miles. The Michigamme rises in upper Michigan within 12 miles of Lake Superior and flows in a southerly direction until it meets the Brule. The Brule has its source in the high swampy plateau of northeastern Wisconsin, which abounds in small lakes, and from which the Wisconsin River flows to the southwest. The source of the Brule is about 1,000 feet above the level of Lake Michigan. It flows in an easterly direction until it meets the Michigamme, forming the Menominee, which pursues a southeasterly course and empties into Green Bay. It has numerous tributaries, some being of considerable importance. The total drainage area of this system is about 4,000 square miles.

The next river of importance to the northward is the Escanaba. This rises in the same region as the Michigamme branch of the Menominee, in the hills well up toward Lake Superior, and flows in a general southeasterly direction, emptying into the northwestern point of Green Bay. This has a somewhat rapid descent during the first half of its course, but a more gentle fall in the lower part. It drains an area of approximately 1,500 square miles.

Several smaller streams flow into the north end of Green Bay, including the Days, Rapid, Whitefish, and Sturgeon. Of these the Whitefish and Sturgeon are the largest, and have a combined drainage of approximately 1,000 square miles. They both rise in the hills about 20 miles south of Lake Superior, and flow almost due south into Green Bay.

TABLE 1.—*Climatological data for February, 1910. District No. 4, Lake Region.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Minnesota.																				
Cloquet	Carlton	892	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	C. I. McNair.
Duluth	St. Louis	1,133	39	8.4	− 5.2	33	28	−22	23	31	1.13	+ 0.14	0.83	12.3	8	15	6	7	nw.	U. S. Weather Bureau.
Floodwood	....do	1,257	6	5.8[b]	....	38[a]	28	−40[b]	17	47[b]	....	....	....	....	....	6[a]	13[a]	8[a]	nw.[a]	M. H. Schussler.
Mount Iron	....do	1,510	16	4.6[d]	− 3.5	34[d]	28	−30	19	39[d]	0.79	+ 0.01	0.39	8.6	4	8	14	6	nw.	Oliver Iron Mining Co.
Stephens Mine	....do	1,500	3	4.2	....	34	7	−35	18	41	0.50	....	0.20	5.4	6	13	7	8	w.	Do.
Two Harbors	Lake	614	16	12.8	− 0.4	38	3†	−24	16†	42	0.94	+ 0.14	0.70	15.0	3	14	9	5	nw.	George W. Watts.
Wisconsin.																				
Appleton	Outagamie	795	11	16.0	− 1.1	40	26	−18	23	26	0.88	− 0.38	0.35	10.0	8	11	12	5	w.	Wm. O. Thiede.
Ashland	Ashland	647	16	12.6	− 0.2	43	28	−23	23	47	1.11	− 0.05	0.52	19.0	7	22	3	3	sw.	Sam Wheeler.
Cecil	Shawano	804	3	13.8	....	40	26	−23	19	46	0.78	....	0.33	11.5	7	12	12	4	sw.	Louis W. Schmidt.
Chilton	Calumet	860	16	15.4	− 1.3	37	1†	−18	23	33	1.21	+ 0.09	0.40	9.8	8	7	15	6	nw.	Daniel V. Jones.
Crandon	Forest	1,060	15	10.7	− 5.1	34	26†	−28	18	42	1.55	+ 0.34	0.40	15.5	9	19	5	4	w.	Calvin T. H. Riggs.
Florence	Florence	1,293	19	11.0	− 1.3	39	7	−21	23	36	2.49	+ 1.27	0.70	20.0	6	19	1	8	nw.	Fred S. Evans.
Fond du Lac	Fond du Lac	800	24	14.4	− 2.8	38	26	−22	24	39	0.86	− 0.27	0.34	9.0	7	13	9	6	sw.	Geo. W. Marshall.
Grand River Locks	Marquette	616	14	12.4	....	40	26†	−24	23	37	0.66	− 0.28	0.40	6.0	4	15	9	4	nw.	Jerry Parkinson.
Green Bay	Brown	617	24	15.2	− 2.0	38	26	−16	23	27	1.07	− 0.53	0.37	10.8	10	8	7	13	sw.	U. S. Weather Bureau.
Herbster	Bayfield	700	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Wm. Angell.
Iron River	....do	1,096	1	10.4	....	40	28	−26	23	39	0.70	....	0.50	7.0	2	18	4	8	s.	Harry C. Hall.
Kewaunee	Kewaunee	590	1	17.6	....	38	14	−15	23	30	1.55	....	0.50	15.5	7	18	1	9	w.	Eugene V. Kimball.
Manitowoc	Manitowoc	616	59	18.4	0.0	41	26	−14	23	27	0.95	− 0.58	0.39	9.0	9	12	4	12	w.	Johanna Lups.
Menasha	Winnebago	764	13	....	....	....	....	....	....	....	0.59	− 0.13	0.24	6.5	4	20	1	7	sw.	George T. Allanson.
Menominee Falls	Waukesha	842	1	18.1	....	41	14	−13	23	36	0.82	....	0.28	5.1	6	12	10	6	nw.	Arthur H. Christman.
Milwaukee	Milwaukee	681	40	19.3	− 2.6	43	15	−11	23	29	0.58	− 1.31	0.27	5.1	6	11	9	8	w.	U. S. Weather Bureau.
New London	Outagamie	762	14	14.6	− 0.3	40	26	−18	23	35	0.84	− 0.40	0.30	8.0	4	10	6	12	sw.	August H. Pape.
Oconto	Oconto	590	19	15.3	− 1.4	41	26	−17	23	33	2.25	+ 0.87	0.60	22.5	7	15	4	9	sw.	William K. Smith.
Oshkosh	Winnebago	744	21	15.3	− 2.4	40	26	−19	23	33	0.72	− 0.40	0.40	7.0	5	16	11	1	sw.	Evan Vincent.
Pine River	Waushara	900	15	15.0	− 0.4	40	26	−20	23	37	0.50	− 0.28	0.18	4.7	6	9	10	9	nw.	George H. Carpenter.
Plum Island	Door	588	2	17.4	....	38	26†	−12	23	30	0.71	....	0.37	....	7	14	3	11	nw.	John P. Whelan.
Port Washington	Ozaukee	713	17	18.6	− 0.4	38	26	−14	23	28	0.80	− 0.83	0.40	7.0	3	14	4	10	nw.	Richard C. Kann.
Racine	Racine	633	13	21.0	+ 0.1	44	15	−11	23	30	0.36	− 0.96	0.15	....	4	11	3	14	w.	Daniel Davis.
Sheboygan	Sheboygan	831	12	19.7	+ 1.5	38	26	−12	23	26	0.70	− 0.92	0.30	7.0	4	13	7	8	nw.	Louis C. Meyer.
Sturgeon Bay	Door	600	12	15.6	− 1.7	36	8	−15	23	39	1.90	....	0.98	25.0	6	17	5	6	w.	Adam N. Dier.
Superior	Douglas	671	1	8.6	....	33	8†	−20	23	41	0.36	....	0.12	4.4	6	17	6	5	sw.	Edward B. Banks.
Waupaca	Waupaca	857	14	14.0	− 0.7	40	26	−22	24	41	0.75	− 0.15	0.32	12.5	5	9	6	13	sw.	James H. Flagg.
Illinois.																				
Chicago	Cook	824	40	24.8	− 0.6	51	15	− 6	23	26	0.89	− 1.27	0.52	2.8	6	6	9	13	sw.	U. S. Weather Bureau.
Indiana.																				
Auburn	DeKalb	874	14	22.0	− 0.4	50	15	− 3	19	42	1.51	− 0.81	0.75	....	9	12	2	14	w.	Mrs. Josie B. Kuhlman.
Berne	Adams	849	....	25.6	....	51	16	− 4	18	33	2.31	....	0.72	12.9	10	12	8	8	sw.	H. M. Reusser.
Elkhart	Elkhart	801	8	26.8	....	54	5	4	24	31	1.46	....	0.70	5.8	8	8	6	14	n.	Dr. Miles Medical Co.
Fort Wayne	Allen	775	14	26.2	+ 0.4	48	15†	− 5	19	39	1.37	− 1.43	0.60	8.7	11	8	6	14	sw.	Orion E. Mohler.
Hammond	Lake	598	19	24.6	+ 1.4	50	15	− 8	23	35	1.39	− 0.90	0.63	2.0	4	9	5	14	.....	Carson W. Whitney.
Howe	Lagrange	886	5	22.2	....	43	13†	2	24	37	1.55	....	0.85	7.0	6	14	0	14	sw.	James E. Zook.
South Bend	St. Joseph	726	17	22.8	+ 0.5	50	15	− 1	24	31	1.89	− 0.44	0.95	7.0	9	5	5	18	s..	Henry H. Swaim.
Whiting	Lake	606	....	28.2	....	53	15	− 6	23	32	0.70	....	0.38	1.0	6	14	6	8	sw.	D. H. Boyd.
Michigan—Upper Peninsula.																				
Baraga	Baraga	623	8	13.2[a]	....	42[a]	7	−19[a]	23	43[a]	1.30[a]	....	0.70[a]	13.0[a]	4[a]	12[a]	4[a]	11[a]	nw.[a]	D., S. S. & A. Ry.
Bergland	Ontonagon	1,300	....	10.8	....	42	7	−31	18	45	0.99	....	0.22	....	6	13	3	12	nw.	Frank McMonigal.
Blaney	Schoolcraft	....	3	12.0	....	35	3	−22	24	29	....	....	....	....	....	12	13	3	nw.	Dr. S. S. Hackwell.
Calumet	Houghton	1,246	22	12.0	− 1.3	31	26	−11	23	24	1.92	+ 0.36	0.32	24.0	14	8	6	14	w.	E. S. Grierson.
Chatham	Alger	875	9	11.6	....	42	7	−26	3†	46	1.58	....	0.37	15.8	13	5	12	11	nw.	U. P. Experiment Station.
Deer Park	Luce	610	9	15.2	....	36	28	−12	25	39	1.70	....	0.40	16.0	8	4	0	24	se.	Mrs. Sara E. McGaw.
Detour	Chippewa	585	9	14.5	....	48[a]	13	−15	11	49[a]	2.00	....	0.60	20.0	4	21	7	0	se.	Dr. F. E. Cameron.
Eagle Harbor	Keweenaw	622	11	16.0	+ 0.8	33	2†	− 6	23	34	1.63	− 0.44	0.55	16.3	11	7	10	12	sw.	John Nolen.
Escanaba	Delta	612	37	14.2	− 1.1	38	3	−15	23	39	1.47	+ 0.13	0.63	14.7	7	12	5	11	nw.	U. S. Weather Bureau.
Ewen	Ontonagon	1,147	9	8.0	....	39	28	−38	19	52	2.60	....	0.80	26.0	9	6	9	13	sw.	W. B. Hatfield.
Grand Marais	Alger	610	9	15.0	....	38	5	− 6	23	28	2.90	....	0.40	32.0	12	5	1	22	s.	Mrs. Lena Truedell.
Houghton	Houghton	668	9	12.2	− 3.8	38	7	−16	25	41	1.54	− 0.17	0.45	21.6	15	6	11	11	w.	U. S. Weather Bureau.
Humboldt	Marquette	1,536	13	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	D., S. S. & A. Ry.
Iron Mountain	Dickinson	1,111	9	13.6	....	43	3	−18	23	40	1.20	....	0.56	17.0	5	19	1	8	nw.	Chapin Mining Co.
Iron River	Iron	1,504	13	9.4	+ 0.4	38	7	−33	18†	45	1.60	+ 0.53	0.50	13.0	5	17	8	3	nw.	Victor D. Laing.
Ironwood	Gogebic	1,520	7	10.6	....	38	7	−24	23	35	1.60	....	0.40	16.0	6	20	3	5	nw.	Prof. J. V. Brennan.
Ishpeming	Marquette	1,536	10	12.0[c]	+ 2.3	38[c]	7	−19[c]	23†	37[c]	1.30	− 0.60	0.40	13.0	10	9	8	11	nw.	Cliv'd. Cliffs Iron Co.
Isle Royale	Keweenaw	610	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	John H. Malone.
Mackinac Island	Mackinac	831	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	M. I. S. P. Com.
Maple Ridge	Delta	....	4	10.4	....	39	7†	−27	24	47	2.10	....	0.60	21.0	7	17	1	10	n.	Herman Johnson.
Marquette	Marquette	734	30	15.2	− 0.7	43	7	−10	23	29	2.81	+ 1.09	1.25	30.1	13	6	10	12	w.	U. S. Weather Bureau.
Menominee	Menominee	581	11	16.4[f]	+ 1.8	37[a]	26†	−13[j]	17	28[j]	1.23	+ 0.15	0.50	12.3	7	16	2	10	nw.	C. & N. W. Ry.
Newberry	Luce	773	8	12.4[a]	....	37[b]	3	−24	25	37[b]	....	....	....	....	....	9	14	5	nw.	D., S. S. & A. Ry.
Powers	Menominee	868	11	12.2	− 1.2	39	3	−24	24	41	1.48	+ 0.06	0.58	14.8	5	11	10	7	nw.	C. & N. W. Ry.
St. Ignace	Mackinac	593	20	....	....	38	2	....	....	....	1.13	− 0.32	0.40	11.3	7	15	5	8	n.	D., S. S. & A. Ry.
Sault Ste. Marie	Chippewa	614	22	9.8	− 3.6	34	3	−23	19	40	1.56	+ 0.15	0.51	19.4	12	9	8	11	se.	U. S. Weather Bureau.
Thomaston	Gogebic	1,347	13	9.2	− 0.3	38	7	−31	18†	41	1.20	− 0.09	0.30	12.0	8	9	12	7	n.	D., S. S. & A. Ry.
Victoria	Ontonagon	1,263	....	8.2	....	39	28	−27	23	40	0.79	....	0.25	10.0	8	13	5	10	w.	R. S. Schultz, jr.
Watersmeet	Gogebic	....	1	9.0	....	38	28	−35	18	50	1.04	....	0.45	10.4	8	13	4	11	nw.	B. N. Grant.
Wetmore	Alger	878	13	11.2	− 0.1	36	3†	−27	19	48	1.50	− 0.14	0.60	15.0	5	12	0	16	n.	D., S. S. & A. Ry.
Whitefish Point	Chippewa	610	20	12.8	+ 0.2	37	3	−18	25	35	3.75	+ 2.25	0.90	39.5	13	10	1	17	se.	Robert Carlson.
Michigan—Lower Peninsula.																				
Adrian	Lenawee	770	32	23.2	+ 0.2	42	20	− 2	19	34	2.05	− 0.47	0.70	5.5	6	2	7	19	s.	B. F. Gibbs.
Agricultural College	Ingham	820	46	21.9	− 0.5	45	16	0	6†	29	2.65	+ 0.82	0.50	4.0	10	5	18	5	s.	Prof. A. J. Patten.
Allegan	Allegan	698	19	25.0	+ 3.0	47	14	1	23	26	1.11	− 0.96	0.30	10.0	6	6	4	18	w.	Pere Marquette R. R.
Alma	Gratiot	750	23	19.5	0.0	42	16	− 7	24†	32	1.52	− 0.17	0.37	9.5	10	8	10	10	nw.	P. M. Smith.
Alpena	Alpena	609	37	17.0	− 0.8	38	14	−11	25	33	1.09	− 0.70	0.28	10.4	11	6	12	10	nw.	U. S. Weather Bureau.
Ann Arbor	Washtenaw	930	30	22.0	− 0.3	45	16	− 2	24	30	1.43	− 0.65	0.37	7.7	10	11	2	15	s.	University of Michigan.
Arbela	Tuscola	728	14	19.6	0.0	42	15	− 5	7†	33	1.97	+ 0.02	0.62	9.5	7	0	10	18	s.	Wm. Atkin.
Battle Creek	Calhoun	822	36	22.6	− 1.7	45	16	1	23	27	1.55	− 0.65	1.00	3.0	6	6	10	12	sw.	Elmer E. Sager.
Bay City	Bay	593	14	19.0	+ 1.3	43	16	− 6	6	38	2.85	+ 1.43	0.90	13.0	6	0	2	26	sw.	Pere Marquette R. R.
Benzonia	Benzie	832	14	19.7	+ 0.5	37	14	− 3	25	26	2.82	+ 0.38	0.65	27.5	16	5	10	13	nw.	Martin S. Joiner.
Berlin	St. Clair	....	21	18.6	− 1.7	42	16	− 8	25	36	1.68	− 0.27	0.51	6.7	9	4	11	13	nw.	R. O. Gould.
Big Rapids	Mecosta	906	14	17.8	+ 1.1	39	16	−14	25	38	1.90	− 0.21	0.60	13.0	9	11	4	13	w.	Charles Gay.
Bloomingdale	Van Buren	....	6	23.2	....	45	15	1	23	29	1.70	....	0.40	5.0	7	7	7	14	se.	John M. Haven.
Cadillac	Wexford	1,293	1	16.4	....	38	28	−11	6	30	1.90	....	0.90	17.0	8	10	7	11	sw.	A. J. Teed.
Casopolis	Cass	903	9	22.4	....	40	3†	− 1	24	30	2.00	....	0.90	10.0	5	4	0	24	sw.	Michigan Central R. R.
Charlevoix	Charlevoix	610	23	17.5	0.0	36	28	−17	25	36	0.80	− 0.88	0.40	8.0	3	9	4	15	nw.	Pere Marquette R. R.
Charlotte	Eaton	....	6	22.1	....	45	16	− 1	1†	33	1.01	....	0.38	2.5	4	6	6	16	sw.	City of Charlotte.

TABLE 1.—*Climatological data for February, 1910. District No. 4*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Michigan—Lower Peninsula—Cont'd.																				
Cheboygan	Cheboygan	611	20	12.1	− 3.7	35	7	−16	24	35	1.30	+ 0.01	0.65	17.5	4	14	5	9	sw.	E. A. Bouchard.
Clinton	Lenawee	830	20	24.0	+ 1.3	47	28	− 4	24	37	1.34	− 0.56	0.43	4.0	6	6	11	11	nw.	David Woodward.
Coldwater	Branch	984	13	24.2	+ 3.2	46	16	2	1†	39	2.30	+ 0.53	0.60	5.0	8	8	4	16	nw.	Lake Shore & Mich. So. Ry.
Concord	Jackson		5	21.9	.....	43	15	− 1	23	27	1.68	.....	0.95	.....	5	9	17	2	nw.	Dr. W. N. Armstrong.
Croton	Newago	685	2	21.0	.....	41	16	−11	24	34	0.90	.....	0.40	8.5	5	2	19	7	sw.	G. R.-Mus. Power Co.
Detroit	Wayne	730	39	22.4	− 2.6	46	15	3	19	25	1.84	− 0.35	0.58	9.1	13	5	10	13	sw.	U. S. Weather Bureau.
Durand	Shiawassee	799	3	21.8	.....	42	28	0	6†	28	1.08	.....	0.38	5.0	5	8	15	5	sw.	Grand Trunk Ry.
East Tawas	Iosco	590	13	18.8	+ 1.8	40	8†	−16	25	36	1.20	− 0.03	0.40	13.0	6	21	5	2	nw.	Detroit & Mackinac Ry.
Eloise	Wayne	640	13	22.0°	+ 2.1	45°	16	− 4°	24	32°	1.30°	− 0.93	0.41°	5.2°	9°	6°	7°	12°	w.°	John Gilmore.
Flint	Genesee	730	21	21.9	+ 1.7	46	15	0	6†	39	1.08	− 0.31	0.50	6.0	7	9	11	8	w.	Wm. L. Fisher.
Frankfort	Benzie	589	6	20.7	.....	37	28	− 5	25	26	2.70	.....	0.50	27.0	13	12	0	16	w.	Capt. Geo. Morency.
Ganges	Allegan	665	1	23.3	.....	44	15†	4	7	28	1.35	.....	0.40	8.0	9	5	10	13	nw.	H. H. Hutchins.
Gaylord	Otsego	1,367	5	16.2	.....	38	26†	−12	6†	28	.....	.....	.....	.....	.....	9	1	18	nw.	Michigan Central R. R.
Gladwin	Gladwin	794	14	17.4	− 0.5	38	20	−22	24	42	0.95	− 0.56	0.50	5.0	3	18	5	5	s.	Geo. R. Smith.
Grand Haven	Ottawa	628	29	22.8	− 1.4	43	15	3	23	25	1.59	− 0.32	0.58	13.6	13	4	10	14	n.	U. S. Weather Bureau.
Grand Rapids	Kent	707	21	22.8	− 2.7	48	15	0	23	23	1.15	− 0.76	0.60	4.9	13	4	6	18	s.	Do
Grape	Monroe	625	20	23.6	− 0.2	46	1†	− 1	18†	32	1.29	− 0.46	0.48	5.8	12	8	12	8	w.	Joseph W. Morris.
Grass Lake	Jackson	989	4	21.4	.....	43	16	0	7†	29	1.29	.....	0.50	7.0	4	13	4	11	sw.	Menzo Conklin.
Grayling	Crawford	1,147	21	16.5[a]	+ 1.1	38[a]	28	−28[a]	24	54[a]	.....	.....	.....	.....	.....	17[i]	2[i]	0[i]	sw.[a]	Dr. Oscar Palmer.
Harbor Beach	Huron	635	22	19.4	− 0.5	41	9	− 8	24	34	2.15	+ 0.79	0.60	21.0	8	11	3	14	sw.	Pere Marquette R. R.
Harrison	Clare	1,159	17	18.0	+ 1.0	39	4	−20	25	40	1.60	+ 0.30	0.40	16.0	7	2	8	18	s.	Do.
Harrisville	Alcona	616	26	17.1	− 1.6	36	8†	−18	24	40	1.40	− 0.84	0.40	15.5	7	8	13	7	nw.	Dr. D. W. Mitchell.
Hart	Oceana	698	18	21.8°	+ 0.6	37°	15†	− 2°	25	27°	1.60°	− 0.45	0.40°	16.0°	6°	2°	11°	10°	w.°	Pere Marquette R. R.
Hayes	Huron	620	20	17.4	− 1.3	39	26†	−14	25	39	1.63	− 0.15	0.60	12.0	5	13	3	12	nw.	C. F. Leipprandt.
Highland	Oakland	830	18	.....	.....	.....	.....	.....	.....	.....	2.71	+ 0.61	1.15	10.5	9	.....	.....	.....	.....	A. D. De Garmo.
Hillsdale	Hillsdale	1,150	13	22.3	+ 3.1	44	15	0	24†	27	1.46	− 1.23	0.40	5.5	9	10	2	16	nw.	Prof. C. L. Herron.
Holland	Ottawa	610	4	23.4	.....	47	14	3	23	26	2.18	.....	0.66	12.5	13	0	19	9	sw.	City of Holland.
Howell	Livingston	924	18	20.6°	− 0.2	43°	16	− 4°	24	31°	1.50°	− 0.24	1.00°	3.6°	6°	3°	10°	12°	sw.	Frank Sharp.
Ivan	Kalkaska	.....	21	14.8	− 1.9	37	28	−24	6	35	1.01	− 0.73	0.20	11.5	9	6	9	13	nw.	O. L. Giddings.
Jackson	Jackson	927	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Michigan Central R. R.
Jeddo	St. Clair	667	21	17.7	− 2.3	40	16	−11	24	33	1.44	− 0.30	0.30	11.5	11	6	10	12	sw.	William Bice.
Kalamazoo	Kalamazoo	955	34	22.6	− 1.3	45	15†	3	23†	26	1.30	− 0.92	0.48	2.7	7	8	6	14	sw.	Kalamazoo Asylum.
Lansing	Ingham	881	23	22.2	+ 0.6	44	16	0	23	28	1.31	− 0.55	0.35	6.0	10	8	6	14	nw.	State Board of Health.
Lapeer	Lapeer	827	11	22.1	+ 3.3	46	15	− 5	10	32	1.19	− 0.91	0.71	4.5	4	0	27	1	nw.	Michigan Home.
Ludington	Mason	586	12	22.2[d]	+ 1.3	41[d]	28	0[d]	23†	32[d]	1.81[d]	+ 0.13	0.50[d]	17.0[d]	7[d]	3[d]	14[d]	7[d]	sw.[d]	Pere Marquette R. R.
Luther	Lake	1,028	.....	18.2	.....	37	16†	−17	25	35	1.52	.....	0.37	11.8	14	7	11	10	w.	John W. Nichoson.
Mackinaw	Cheboygan	592	14	16.7	+ 2.3	41	2	−14[a]	24	35[a]	0.99	− 0.42[j]	0.60	10.0	8	16	1	11	w.	Grand Rapids & Ind. R.
Mancelona	Antrim	1,121	14	14.8	0.0	38	28	−22	25	40	0.80	− 1.09	0.60	8.0	2	10	5	13	w.	Do.
Manistee	Manistee	600	13	23.1	+ 3.7	40	17	− 5	24	30	1.50	− 0.81	0.50	15.0	5	6	9	13	sw.	Pere Marquette R. R.
Midland	Midland	604	11	20.1	+ 1.4	39	20	−12	24	37	0.99	− 0.20	0.35	9.9	4	6	13	9	sw.	Do.
Montague	Muskegon	660	7	20.4	.....	40	15	− 2	25	29	.....	.....	.....	.....	.....	7	12	9	nw.	Gerard A. Whitbeck.
Morenci	Lenawee	811	3	23.4	.....	46	16	− 3	19	35	1.65	.....	0.65	4.8	10	8	7	13	sw.	George J. Tripp.
Mount Clemens	Macomb	615	10	21.0	+ 1.0	48	15	− 4	24	32	1.22	− 0.31	0.45	6.0	7	12	4	12	nw.	Herman Orbits.
Mount Pleasant	Isabella	826	11	17.8	+ 0.1	40	16	−10	25	39	.....	.....	.....	3.5	.....	12	5	11	sw.	Pere Marquette R. R.
Muskegon	Muskegon	587	14	22.2	+ 2.2	40[a]	15†	3[a]	22†	26[a]	1.57	− 0.14	0.60	13.0	9	4	1	23	n.	Grand Rapids & Ind. Ry.
Old Mission	Grand Traverse	848	16	18.6	+ 0.3	41	28	− 7	25	29	1.20	− 0.37	0.22	12.0	9	8	9	11	w.	E. O. Ladd.
Olivet	Eaton	934	20	21.9	0.0	43	15	0	23	26	1.59	− 0.43	0.86	6.0	8	8	4	16	s.	Prof. G. A. Knapp.
Omer	Arenac	616	11	.....	.....	.....	.....	.....	.....	.....	1.65	+ 0.32	0.65	10.0	4	1	17	10	sw.	Detroit & Mackinac Ry.
Onaway	Presque Isle	826	7	13.8	.....	38	28	−15	25	35	2.15	.....	0.70	17.0	4	10	0	18	se.	Do.
Ovid	Clinton	760	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. B. Faxon.
Owosso	Shiawassee	731	13	23.8	+ 3.9	62	21	− 1	7	44	1.35	− 0.38	0.50	4.5	5	2	14	12	nw.	Owosso Sugar Co.
Petoskey	Emmet	660	20	16.6	− 0.2	36	26	−12	25	35	2.37	+ 0.74	0.50	22.0	10	6	13	9	w.	Grand Rapids & Ind. Ry.
Plymouth	Wayne	725	13	23.2	+ 2.1	45	16	− 7	11	36	1.50	+ 0.01	0.60	4.0	3	7	9	12	w.	Pere Marquette R. R.
Pontiac	Oakland	935	10	21.0[a]	− 2.5	43	16	− 5	24	29[b]	1.47	+ 0.03	0.45	7.2	12	11	7	10	nw.	Fred W. Shaw.
Port Austin	Huron	618	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pere Marquette R. R.
Port Huron	St. Clair	639	35	20.1	− 1.9	43	15	− 3	24	29	1.25	− 0.90	0.45	9.4	10	8	6	14	sw.	U. S. Weather Bureau.
Reed City	Osceola	1,033	14	.....	.....	48	22	.....	.....	.....	1.43	− 0.22	0.50	9.5	8	2	7	19	nw.	Pere Marquette R. R.
Roscommon	Roscommon	1,141	6	13.2[b]	.....	36[b]	14†	−27[b]	25	42[b]	0.80[b]	.....	0.30[b]	8.0[b]	5[b]	11[b]	8[b]	7[b]	w.[b]	William Marsh.
Saginaw	Saginaw	601	8	22.4	.....	44	16	− 1	24	28	1.65	.....	0.40	9.5	11	5	16	7	sw.	Postmaster.
Saginaw, W. S.	...do	601	15	21.6	+ 1.5	45	16	− 4	24	30	1.23	− 0.90	0.27	7.8	11	5[a]	15[a]	7[a]	nw.	Robert B. Hudson.
St. James	Charlevoix	681	4	16.2	.....	36	26	− 5	6†	30	1.35	.....	0.40	13.5	7	9	6	13	nw.	Rev. N. Wilhelm.
St. Johns	Clinton	779	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	City of St. Johns.
St. Joseph	Berrien	593	23	24.4	− 2.4	47	15	5	23	23	1.40	− 1.14	0.90	6.0	5	5	8	15	sw.	City of St. Joseph.
Sandusky	Sanilac	790	1	18.4	.....	43	16	−15	25	35	2.77	.....	0.90	10.0	5	11	6	11	s.	Pere Marquette R. R.
Saranac	Ionia	639	15	21.2	− 2.0	42	16	− 3	23†	32	1.36	− 0.92	0.37	8.0	9	5	7	16	sw.	John Wallington.
South Haven	Van Buren	585	14	.....	.....	.....	.....	.....	.....	.....	0.70	− 0.95	.....	5.0	4	13	9	6	se.	Mrs. M. E. De Diemar.
Stanton	Montcalm	880	17	17.8[d]	− 1.5	48[d]	20	− 8[d]	24†	43[d]	0.91[d]	− 0.44	0.20[d]	9.0[d]	7[d]	9[d]	6[d]	9[d]	nw.[d]	City of Stanton.
Thornville	Lapeer	975	33	22.4	− 0.5	40	2†	−10	25	38	1.93	− 0.09	0.40	15.0	10	0	8	20	sw.	Dr. J. S. Caulkins.
Traverse City	Grand Traverse	588	13	20.5	+ 2.0	40	26	−12	24	30	0.65	− 1.27	0.50	6.5	3	14	0	14	nw.	Grand Rapids & Ind. Ry.
Vassar	Tuscola	641	9	23.6	.....	43	16	7	24	25	.....	.....	.....	3.0	.....	7	12	9	nw.	Pere Marquette R. R.
Wasepi	St. Joseph	842	13	22.6	+ 1.1	47	15	0	24	33	1.62	− 0.50	0.80	5.0	8	14	0	14	sw.	Chas. A. Palmer.
Webberville	Ingham	884	8	21.6	.....	43	2	− 2	24	29	1.26	.....	0.41	6.8	8	4	11	13	w.	I. R. Wadsworth.
West Branch	Ogemaw	973	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13[a]	5[a]	3[a]	.....	Michigan Central R. R.
Woodlawn	Montmorency	.....	8	11.4	.....	34	26	−30	24	42	1.70	.....	0.65	17.0	6	12	4	12	w.	T. C. Mathews.
Ypsilanti	Washtenaw	736	25	21.4	− 1.5	42	16	− 3	18	34	2.44	− 0.02	0.65	8.5	11	5	18	5	nw.	Orin J. Bemiss.
Ohio.																				
Akron	Summit	1,081	23	23.1	− 2.7	46	27	− 3	25	39	3.68	+ 1.10	0.90	25.3	13	9	4	15	sw.	Prof. C. R. Olin.
Benton Ridge	Hancock	800	17	26.2	+ 1.1	48	16	0	18†	31	2.58	+ 0.25	0.80	18.3	11	6	8	14	sw.	J. W. Powell.
Bowling Green	Wood	670	30	24.0	+ 1.0	49	16	− 8	19	34	2.38	− 0.02	0.74	12.5	9	13	2	13	sw.	G. C. Houskeeper.
Bucyrus	Crawford	1,000	15	21.4	− 2.3	44	2†	− 8	18	32	4.60	+ 2.66	1.10	30.0	7	9	3	16	sw.	James R. Hopley.
Cleveland (1)	Cuyahoga	762	39	23.8	− 3.0	50	15	1	25	37	3.98	+ 1.37	0.86	30.5	14	6	6	16	s.	U. S. Weather Bureau.
Cleveland (2)‖	...do	754	13	23.7	− 0.5	49	15	− 2	24	32	4.98	+ 2.99	0.90	35.2	14	9	3	16	sw.	Rev. F. L. Odenbach, S. J.
Defiance	Defiance	712	16	23.8	+ 0.4	48	16	− 9	19	38	1.34	− 0.71	0.34	5.6	9	14	1	13	s.	John F. Heilshorn.
Findlay	Hancock	776	21	22.0	− 4.2	49	15	− 5	19	48	3.90	+ 0.90	0.95	20.5	8	15	8	5	se.	Dr. E. A. Moser.
Fremont‖	Sandusky	628	9	25.0	.....	48	16	− 3	19	33	2.68	.....	0.85	22.5	8	13	4	11	sw.	E. Stanley Thomas.
Hedges	Paulding	725	16	23.7	+ 0.9	46	2†	−12	19	38	3.20	+ 1.10	0.65	17.0	10	12	4	12	nw.	Charles Stutsman.
Hillhouse	Lake	997	18	22.1	+ 0.3	45	16†	−14	25	34	3.67	+ 1.07	0.60	25.5	11	9	7	12	w.	J. W. Doncaster.
Hiram	Portage	1,260	26	22.8	− 1.3	46	15	− 2	25	36	3.73	+ 1.04	0.75	28.0	13	4	9	15	nw.	Prof. G. H. Colton.
Hudson	Summit	1,153	49	22.6	− 0.8	54	26	−10	25	41	4.19	+ 1.69	0.90	30.5	13	10	6	12	sw.	Dr. W. I. Chamberlain.
Lima	Allen	875	11	26.0	+ 0.3	47	2†	0	18	28	3.73	− 0.02	1.00	24.0	8	17	2	9	w.	Miss Ollie De Long.
Medina	Medina	944	22	22.8	− 0.9	47	16	−11	24†	39	4.33	+ 2.36	1.03	26.0	9	13	2	13	w.	F. W. Clark.
Montpelier	Williams	880	18	24.0	+ 1.4	45	16	− 1	19†	35	2.31	− 0.21	0.83	9.0	7	8	3	17	w.	G. L. Laser.
Napoleon	Henry	680	24	25.6	+ 2.5	49	16	− 2	19	30	1.86	− 0.28	0.61	6.7	10	12	2	14	s.	A. C. Senter.
New Bremen	Auglaize	1,038	17	25.3	+ 0.8	49	2	− 5	19	36	3.22	+ 1.25	0.80	21.5	8	12	10	6	w.	Miss Lillian Grothaus.
North Royalton	Cuyahoga	1,000	18	22.4	− 0.7	46	16	− 6	25	32	3.75	+ 1.32	0.80	28.0	10	10	10	8	nw.	W. S. Edgerton.
Norwalk	Huron	719	24	25.0	+ 1.5	47	16†	− 9	24	35	4.68	+ 2.58	0.90	33.0	11	14	2	12	nw.	Dr. Albert Sheldon.

TABLE 1.—*Climatological data for February, 1910. District No. 4*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Ohio—Cont'd.																			
Oberlin	Lorain	855	35	23.9	− 1.9	49	16	−11	19	39	4.15	+ 1.80	0.68	33.6	13	14	1	13	w.	Prof. F. F. Jewett.
Ottawa	Putnam	720	18	24.6	− 0.4	48	16	− 5	19	37	1.89	− 0.12	0.69	12.6	10	3	15	10	sw.	Prof. J. T. Maidlow.
Rome	Ashtabula	894	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Crosby.
Sandusky	Erie	629	33	24.5	− 2.6	48	26	− 2	19	28	2.97	+ 0.58	0.90	18.4	12	8	7	13	sw.	U. S. Weather Bureau.
Tiffin	Seneca	775	28	25.0	− 1.6	49	16	− 1	24	34	3.83	+ 1.01	1.00	23.0	10	13	5	10	sw.	Prof. T. H. Sonnedecker.
Toledo (1)	Lucas	769	39	24.9	− 1.9	48	15	1	19	26	2.32	+ 0.36	0.72	9.2	12	10	6	12	sw.	U. S. Weather Bureau.
Toledo (2)‖	....do	606	6	24.8	.....	48	15†	0	19	27	1.97	.....	0.47	6.5	13	9	5	14	n.	J. A. Krance, S. J.
Upper Sandusky	Wyandot	854	27	25.1	− 2.3	50	16	− 4	24	29	3.70	+ 0.82	1.10	25.5	10	13	5	10	nw.	Prof. R. J. Kiefer.
Vickery	Sandusky	588	17	24.0	+ 0.3	48	16	−10	19	42	2.50	+ 0.59	1.00	11.2	11	10	7	11	nw.	John W. Barr.
Wauseon	Fulton	780	38	23.7	− 1.0	48	15	− 1	19†	37	1.94	− 0.98	0.67	9.7	13	6	7	15	s.	Thomas Mikesell.
Wellington	Lorain	856	16	24.2	− 0.7	50	16	− 9	24†	42	4.36	+ 2.11	1.00	25.5	12	8	9	11	sw.	W. D. Warren.
Willoughby	Lake	649	16	.....	.....	.....	.....	.....	.....	.....	4.00	+ 1.96	1.17	19.0	8	1	7	20	s.	C. J. Richardson.
Pennsylvania.																			
Erie	Erie	713	37	23.7	− 2.4	49	15	− 1	25	33	4.02	+ 1.17	1.28	23.0	16	3	9	16	s.	U. S. Weather Bureau.
New York.																			
Adams Center	Jefferson	540	19	17.4	− 1.7	44	16†	−28	7	46	9.06	+ 6.02	1.40	85.0	25	0	14	14	se.	A. E. Cooley
Angelica	Allegany	1,340	27	20.2	− 1.2	46	28	−22	25	38	3.75	+ 1.95	0.92	38.0	16	2	8	18	w.	Charles P. Arnold.
Appleton	Niagara	270	19	22.7	− 0.7	46	27	− 3	11	35	2.72	+ 0.57	0.75	17.2	9	3	8	17	sw.	H. A. Van Wagoner.
Auburn	Cayuga	715	41	19.2	− 5.4	41	15	−10	7	28	4.00	+ 1.88	1.30	32.0	9	10	11	7	s.	A. H. Underwood.
Avon	Livingston	585	15	20.3	− 1.4	44	27	−10	24	42	3.42	+ 1.67	0.92	26.0	12	5	5	18	.....	W. G. Markham.
Benson Mines	St. Lawrence		2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. C. Folger.
Blue Mountain Lake	Hamilton	1,750	10	.....	.....	.....	.....	.....	.....	.....	6.17	+ 3.13	1.20	44.0	12	12	5	11	w.	B. F. Merwin.
Brockport	Monroe	537	14	22.6	+ 0.8	44	16†	− 4	11	30	4.08	+ 1.58	0.75	38.0	13	5	12'	11	w.	W. H. Lennon.
Buffalo	Erie	767	59	21.9	− 2.1	47	27	− 6	6	33	5.74	+ 2.89	1.61	43.7	17	5	5	18	sw.	U. S. Weather Bureau.
Canton	St. Lawrence	448	16	15.2	− 2.8	43	27	−27	11	42	2.87	+ 0.30	0.89	17.1	19	7	9	12	sw.	Do.
Cape Vincent	Jefferson	246	5	16.6	.....	40	15†	−20	10	38	1.59	.....	0.50	.....	8	12	7	9	s.	Verne M. Rice.
Carvers Falls	Washington	343	12	15.0	− 0.6	47	16	−34	7	49	4.61	+ 2.29	0.92	28.0	10	11	8	9	n.	Washburn Fancher.
Chazy	Clinton	151	10	14.6	− 0.5	38	21†	−18	11†	38	2.20	+ 0.71	1.00	22.0	4	12	7	9	n.	W. R. North.
Dannemora	Clinton	1,490	5	14.4	.....	45	28	−20	7	46	3.88	.....	1.40	30.8	11	5	14	9	w.	W. N. Thaver.
Elba	Genesee	500	11	19.8	− 0.4	45	16	−11	11	36	5.45	+ 2.57	1.00	44.0	12	10	7	11	sw.	Jos. S. Wilford.
Fayetteville	Onondaga	530	9	22.8	.....	51	28	−16	7	44	3.49	+ 1.51	0.85	32.5	14	8	7	13	nw.	Dana H. Wells.
Gabriels	Franklin	1,729	8	13.4	.....	40	27†	−27	7	48	2.56	.....	0.55	23.1	18	7	7	14	nw.	Sanatorium.
Harkness	Clinton	622	8	15.9	.....	46	27	−16	7	41	3.00	.....	0.85	25.5	10	21	0	7	w.	J. W. Harkness.
Hemlock Lake	Livingston	900	12	21.3	+ 0.9	44	27	− 6	7	34	.....	.....	.....	.....	.....	6	6	16	w.	D. H. Westbury.
Hunt	....do	1,321	11	23.8	+ 1.2	48	27	−11	24	39	3.99	+ 2.17	1.08	32.0	7	6	11	11	sw.	W. S. Barrager.
Ithaca	Tompkins	928	32	23.2	− 1.9	49	28	− 6	25	30	3.31	+ 1.44	0.89	21.2	17	5	9	14	nw.	U. S. Weather Bureau.
Keene Valley	Essex	1,000	12	16.2[b]	− 3.5	48[b]	16	−18[b]	6†	43[2]	4.35	+ 2.01	1.04	33.0	9	13	6	9	w.	E. R. Wells.
King Ferry	Cayuga		10	.....	.....	.....	.....	.....	.....	.....	2.89	+ 1.05	0.84	29.0	13	7	7	14	nw.	Lucius A. Goodyear.
Lake George	Warren	350	13	18.8	+ 1.0	50	16	−16	7	42	6.14	+ 2.67	1.07	47.7	12	11	9	8	ne.	Charles Forsell.
Lake Placid Club	Essex	1,864	2	11.2	.....	41	16†	−26	11	50	6.57	.....	1.15	50.5	17	7	9	12	nw.	Henry van Hoevenberg.
Le Roy	Genesee	920	20	21.9	+ 0.9	45	16	− 9	24	31	4.52	+ 1.24	0.94	38.8	17	5	9	14	w.	F. W. Ball.
Lockport	Niagara	650	23	21.8	− 1.5	44	27	− 5	7	35	4.00	+ 1.65	0.85	35.2	15	4	3	21	sw.	J. E. Wakeman.
Lowville	Lewis	900	43	13.9	− 5.6	47	28	−28	7	48	4.54	+ 1.83	1.35	.....	7	8	4	16	w.	Charles J. Rice.
Lyndonville	Orleans	.....	14	.....	.....	.....	.....	.....	.....	.....	2.19	+ 0.48	0.63	.....	7	5	3	20	sw.	Milton St. John.
Moira	Franklin	200	10	15.8	+ 0.6	45	21	−20	7	35	4.55	+ 1.36	0.90	37.5	12	10	9	9	w.	C. E. McBride.
Nehasane	Hamilton	1,750	2	13.2	.....	46	28	−36	25	54	8.24	.....	1.29	57.8	15	14	1	13	w.	A. C. Heyburn.
North Lake	Herkimer	1,822	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. A. Paull.
Ogdensburg	St. Lawrence	175	26	17.8	+ 0.7	42	27	−21	11	51	1.89	− 0.24	0.33	11.1	10	8	12	8	s.	State Hospital.
Old Forge	Herkimer	1,733	2	14.6	.....	52	28	−32	7	59	5.84	.....	1.20	51.4	19	4	10	14	w.	Stuart W. Nelson.
Oswego	Oswego	335	40	21.5	− 2.4	48	16	−10	7	36	5.02	+ 2.45	1.60	39.6	19	2	5	21	s.	U. S. Weather Bureau.
Otto	Cattaraugus	1,410	6	20.6	.....	44	17†	−11	7	34	3.47	.....	0.70	.....	9	10	4	14	.....	William Winke.
Palermo	Oswego	460	51	.....	.....	.....	.....	.....	.....	.....	6.53	+ 3.50	2.41	56.9	22	7	8	13	s.	E. B. Bartlett.
Perry City	Schuyler	1,038	30	21.2	− 0.2	48	27	−13	19	40	4.37	+ 2.25	1.35	39.3	11	6	4	18	nw.	W. H. Jeffers.
Philadelphia	Jefferson	485	4	16.2	.....	46	27	−24	11	42	3.32	.....	0.75	26.0	16	4	13	11	w.	E. D. Babcock.
Plattsburg	Clinton	170	60	16.1	− 2.1	44	16	−18	7	43	2.80	+ 1.20	0.70	19.8	10	10	13	5	nw.	T. P. Davison.
Potsdam	St. Lawrence	300	34	17.1	− 1.0	44	27	−24	11	41	3.56	+ 1.65	1.10	28.5	7	9	4	15	sw.	Lloyd W. Weed.
Raquette Lake	Hamilton		2	16.1	.....	48	28	−29	25	47	6.21	.....	0.89	45.5	14	4	5	19	nw.	R. J. Dunning.
Rochester	Monroe	523	81	22.2	− 1.7	48	16	− 2	7	32	3.73	+ 0.90	0.87	43.0	18	5	9	14	w.	U. S. Weather Bureau.
Romulus	Seneca	719	18	22.7	− 0.9	44	27†	− 2	7	25	4.77	+ 3.08	1.60	42.4	11	5	9	14	nw.	John H. Coryell.
Shortsville	Ontario	740	11	21.4	− 0.4	46	16	− 4	7	30	3.32	+ 1.74	0.50	14.2	6	6	12	10	nw.	C. H. Latting.
Skaneateles	Onondaga		15	.....	.....	.....	.....	.....	.....	.....	4.10	+ 1.68	0.75	.....	18	.....	.....	.....	.....	Edward Conron.
Syracuse	....do	597	8	22.1	− 1.7	48	16	−11	7	30	3.64	+ 1.84	1.20	36.7	16	4	8	16	s.	U. S. Weather Bureau.
Ticonderoga	Essex	344	12	18.7	+ 0.3	46	27	−32	7	47	4.23	+ 2.05	1.35	27.0	8	14	7	7	n.	Eva M. De Lano.
Trudeau	....do	1,620	17	16.8	+ 1.9	46	28	−27	7	49	3.86	+ 1.77	0.63	38.2	18	5	10	13	.....	Daniel Smith.
Tupper Lake	Franklin	1,552	10	13.6	+ 0.2	46	28	−34	25	58	4.79	+ 2.27	1.50	45.0	13	9	4	15	w.	Aaron W. Maddox.
Volusia	Chatauqua	1,167	11	20.1	− 0.3	44	27	−10	24	30	4.31	+ 1.71	0.90	35.0	15	6	9	13	w.	Benjamin Breads.
Watertown	Jefferson	737	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. L. Allen.
Wedgewood	Schuyler	1,430	21	20.3	− 1.9	45	16†	− 9	7	27	3.91	+ 1.68	0.95	35.0	14	11	5	12	nw.	Orlando F. Corwin.
Westfield	Chatauqua	837	14	22.2	− 0.5	47	16	−10	24	38	4.08	+ 2.74	0.80	34.5	14	.....	.....	.....	.....	John R. Rogers.
Youngstown	Niagara	.....	8	.....	.....	.....	.....	.....	.....	.....	3.57	.....	1.13	32.0	9	1	22	5	sw.	[illegible] V. Brookins.
Vermont.																			
Burlington	Chittendon	404	3	16.1	− 1.8	45	16	−17	7	38	3.10	+ 1.73	0.92	27.6	14	4	13	11	s.	U. S. Weather Bureau.
Cornwall	Addison	507	17	18.0	− 1.2	51	16	−16	7	40	2.76	+ 0.60	0.84	32.0	8	7	11	10	n.	C. H. Lane.
Enosburg Falls	Franklin	601	19	14.2	− 2.8	45	27	−22	25	44	3.5[a]	+ 0.52	0.82	29.0	15	7	7	14	nw.	L. Howe Pomeroy.
Northfield	Washington	876	24	14.8	− 2.4	51	16	−23	25	46	3.63	+ 1.37	0.90	36.3	15	6	6	16	s.	U. S. Weather Bureau.
Rutland	Rutland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. L. Hindley.
Wells	....do	750	19	16.5	− 2.4	42	16†	−24	7	36	5.01	+ 2.02	1.15	28.0	11	7	12	9	sw.	E. R. Pember.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 4, Lake Region.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Minnesota.																															
Cloquet	Lake																														
Duluth	do		.01						T.	T.	.04	.04				.83				.04	.01		.02			.14	T.					1.13
Floodwood	do																														
Mount Iron	do										.09					.27	T.									.39	.04					0.79
Stephens Mine	do								.03	T.	T.	.05				.16					.02		.04			.20	T.					0.50
Two Harbors	do		T.							T.	.10	T.				.70	T.				T.					.14						0.94
Wisconsin.																															
Appleton	Fox		T.							.02		.03	.06		.05	.11	T.			T.	.18		.08				.35					0.88
Ashland	Lake		T.							.20	.10	.04				.52	.05				.08					.12						1.11
Cecil	Fox		.04							.07	.03				.02	.33							.12				.17					0.78
Chilton	do		T.	.04						T.	T.	T.	.10			.15	T.			T.	.35	.03	.10				.40	.04				1.21
Crandon	do		T.							.40	.20	.20	.05			*	.30				.10		.10			T.	.20					1.55
Florence	Menominee		.10						T.	.40		.70				*	.66				.23		T.			.40						2.49
Fond du Lac	Fox											T.	.05		T.	.10				.03	.34		.03				.24	.07				0.86
Grand River Locks	do		T.	.02												.15	T.				.40	T.	T.				.09	T.				0.66
Green Bay	Lake		.03							.10		.02	.02		.03	.32					.15		.03			.01	.36					1.07
Herbster	do																														
Iron River	do									.20						.50															
Kewaunee	do									.15		.05			.05	.20					.25		.35				.50					1.55
Manitowoc	do		.02							.11		T.			.05	.18				.01	.39		.01			.16	.02					0.95
Menasha	Fox		T.							T.			.05			.13					.17		T.				.24					0.59
Menominee Falls	Lake											T.	.05			.15				.05	T.	.25	.04				.28	T.				0.82
Milwaukee	do		.01						T.		T.	T.	T.			.04	T.		T.	.01	.23	T.	.02			T.	.27					0.58
New London	Fox		T.										T.			.29					.18		.07				.30					0.84
Oconto	Lake									.15	.40	*	.50			.60					.20		.10			.30						2.25
Oshkosh	Fox		T.								T.	T.	.10			.10					.40		.02				.10					0.72
Pine River	do		T.								T.	.01	.02			.16			T.	T.	.18		.04				.09					0.50
Plum Island	Lake		.09									.08				.06					.07		.04			.03	.34					0.71
Port Washington	do											T.	T.			.10				*	.40	T.					.30					0.80
Racine	do		T.									T.	T.			T.	T.			T.	T.	.12	.03				.15	.06				0.36
Sheboygan	do			T.							T.	T.			T.	T.				.10	.10	.30	T.				.20	T.				0.70
Sturgeon Bay	do		.07							.09		.06			T.	.55	T.				.15					T.	.98	T.				1.90
Superior	do		T.								.02	.02				.02	.12				.07		T.			.11						0.36
Waupaca	Fox											.01				.19					.20		.03				.32					0.75
Illinois.																															
Chicago	Lake Michigan		.19	.01		T.			T.	T.	T.	T.	T.			T.	T.	T.			.08	.03	.06				.52					0.89
Indiana.																															
Auburn	Maumee			.05		T.						.03	.05				.21	.16			.04	.12	T.			.75	.10					1.51
Berne	do			.20						.20	T.					.15	.40	.43				.15	.01			.04	.72	.01				2.31
Elkhart	St. Joseph	T.		.15		T.	T.			T.	.15		.20	T.			.02	.05	T.			T.	T.	.15		.04	.70					1.46
Fort Wayne	Maumee			.14		T.	T.			.07			.13	.01			*	.21	.03			.09	T.	.01			.12	.56	T.				1.37
Hammond	Lake Michigan		.63													.10							.10				.56					1.39
Howe	St. Joseph										.10		.10	.10							.10			.30				.85				1.55
South Bend	do			.20			.09				.04		.09	.08				.09	T.			.17	T.	.18				.95				1.89
Whiting	Lake Michigan		.06	.10									T.	T.			T.				.01		.03				.38	.12				0.70
Michigan—Upper Peninsula.																															
Baraga	Lake									.30			.20			.70										.10						1.30
Bergland	Ontonagon					T.			T.	.20		T.	.17			.18	.07				.15		T.			.22		T.				0.99
Blaney	Manistique									.10		.04				.15							.01									
Calumet	Lake	T.				.08	.02		.06	.08	T.	.04	.16	T.		.32	.32	.20	.16	.04	.08	T.	.04			.32	T.	T.				1.92
Chatham	do				.02	.04	.04		.03	.11		.04	.28			.37	.14				.26	.07	.04			.14						1.58
Deer Park	do				T.	.30	T.			T.		T.		T.	.15	.40	.20	.10			T.		T.	.10	.15	.30						1.70
Detour	St. Marys												.40				60							.40			60					2.00
Eagle Harbor	Lake	.12	.08		T.	T.	.08		.02	.10		.03			T.		.55	T.	T.	.05		.10	.10	T.	T.		.40					1.63
Escanaba	do		.05			T.	T.		T.	T.	T.	.06	T.			.59					.08		.06			.38	.25					1.47
Ewen	Ontonagon					.20			.20	.40		T.	.35			.80	.20				.15		.10			.20						2.60
Grand Marais	Lake		T.		.30	.20			T.	.40	T.			.20		.30	.40	.20	.10	.30	.20		.10	.20			T.					2.90
Houghton	do	T.			.01	.08	T.		.04	.03	T.	.12	.03	T.	T.	.41	.14	.18	.07	.04	.08		.05	.01		.25	T.	T.				1.54
Humboldt	Escanaba																														
Iron Mountain	Menominee		T.						.10			.15				.56					.16		T.			T.	.23					1.20
Iron River	do										.30					.50	.30				.20		T.			T.	.30					1.60
Ironwood	Lake					T.			T.	.40	.10		.20				.40	.30								.20						1.60
Ishpeming	Escanaba					.03			T.	.06		.04	.20			.40	.10				.05		.02			.10	.30					1.30
Isle Royale	Lake																														
Mackinac Island	do																														
Maple Ridge	do		.10									.30	.20			.50							.20			.20	.60					2.10
Marquette	do		T.		.08	.27	.13		T.	.06	.01	.05	.34		T.	.98	.27				.27	T.	.02			.11	.22					2.81
Menominee	Menominee									.10		.20	.10			.50					.05		.08				.20					1.23
Newberry	Tequamenon															.10	.10						.10									
Powers	Lake									.10		.35	.30			.58						T.				.15						1.48
St. Ignace	do		.02	.01									.10			.40	.15							.10			.35					1.13
Sault Saint Marie	St. Marys	.04	T.		.09				T.			.10	.03	.15	.06	.32		T.			.17		.05	.02		.15	.38					1.56
Thomaston	Lake					.10			.20	.10			.10			.30	.20				.10					.10						1.20
Victoria	Ontonagon					.03			.02			.04	.10			.25					.14		.03			.18						0.79
Watersmeet	do		T.			T.			T.	.10	T.	.05	.06			.45	.03				.16		.03			.16						1.04
Wetmore	Lake					.20						.20				.60	.30						.20									1.50
Whitefish Point	do	.05	.08		.22	.11	T.					.20	.02	.20	.40	.51	.30	.02						.90	T.		.74					3.75
Michigan—Lower Peninsula.																															
Adrian	Raisin		.40	.05								.30					.20										.70		.40			2.05
Agricultural College	Grand		.20	.20					.50	.50	.05		.15			.40					.30						.20	.15				2.65
Allegan	Kalamazoo			.11		T.				.10	.10		.30		T.	T.				T.	.20	.30										1.11
Alma	Saginaw		.10	.12		T.				.10	.08		.09			.17					.22	T.	.09				.37	.18				1.52
Alpena	Lake		.06		.01	.01	.01		T.	T.	T.	.11	.04			.28	T.		T.		.26	T.	.08			.03	.20	T.				1.09
Ann Arbor	Huron		.02	.10						.05			.30	T.		T.	T.	.20	T.			.05	.07	T.			.21	.37	.06			1.43
Arbela	Saginaw			.52									.33		.08	.16						.13		.13				.62				1.97
Battle Creek	Kalamazoo		.05	.28						T.			.18	T.	T.	T.					T.	T.	.04	T.			.50	.50				1.55
Bay City	Saginaw		.60										.30			.15						.60	.30					.90				2.85
Benzonia	Betsie		T.			.12	.03				.04	.15	.38	.03		.30	.02	T.	.07		.32	.04	.24	.65		.05	.28	.10				2.82
Berlin	Clinton		T.	.51					T.		.04		.30	T.		.05		T.	.11			.10	T.	.02			.08	.47	T.				1.68
Big Rapids	Muskegon		.10			T.			T.	T.	.10	T.	.10		.10	.10				.60	T.		.10	.20			.50						1.90
Bloomingdale	Lake		T.			.10				T.	T.	T.	T.	.20				T.	T.			.30	.10	.40	T.	.30	.30					1.70
Cadillac	Manistee		T.			.18						.15	.10			.90			.05			.25	.05				.22					1.90
Cassopolis	St. Joseph		T.			T.							.50	.20					T.		T.	T.	T.	.30			.90	.10	T.			2.00
Charlevoix	Lake															.20					.20						.40					0.80
Charlotte	Kalamazoo			.27						T.			.15			T.							T.				.21	.38				1.01
Cheboygan	Cheboygan				.05							T.				T.	.65				T.		T.	.05		T.	.55	T.				1.30
Clinton	Raisin			.30									.20					.16									.10	.43	.15			1.34
Coldwater	St. Joseph		.10	.50						T.			.20					.10				.20	T.	.10			.50	.60				2.30
Concord	Kalamazoo									T.	T.	T.	.95					.15				T.	.11	T.		.17	.30					1.68
Croton	Muskegon		T.				T.				T.		.15		T.	T.	T.		T.	.40		.05	T.	.15			.15	T.				0.90
Detroit	Detroit		.14	.17		T.				.02	T.	.09	.25	T.	.02	T.	.08	.13	T.		.06	T.	.11	.01			.25	.51	T.			1.84
Durand	Saginaw		T.	.38						T.	.04		.12		T.	T.						T.	T.	T.			.17	.37				1.08

TABLE 2.—*Daily precipitation for February, 1910. District No. 4*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Michigan—Lower Peninsula—Cont'd.																															
East Tawas	Lake		.10			T.				T.	T.	T.	.20			.18					.40		.10		T.	.22					1.20
Eloise	Rouge					T.				T.	T.		.27	.05	T.	T.	T.	.09	.10			.07	T.	.08			.03	.41	.20			1.30
Flint	Saginaw			.50							.07		.12									.05		.04			.10	.20				1.08
Frankfort	Betsie					.10	.40	.10			.10	.30	.30	.10																	2.70
Ganges	Lake			.09		.08	.09				T.		T.	.10						T.	T.	.30	.10	.09			.40	.10				1.35
Gaylord	Cheboygan		T.		.10							.03				.15							.03			T.	.08				
Gladwin	Saginaw			.30												T.						.50					T.	.15				0.95
Grand Haven	Grand		.14			.03	T.		T.	.02	.02	T.	.13		.01	.03	T.	T.	.11	.17	.15	T.	.16	.04	T.	T.	.58					1.59
Grand Rapids	...do		.10	.02		T.	T.		T.	.02	.01	.03	.09		.01	.01	T.		T.	T.	.12	.02	.12	T.			.58	.02				1.15
Grape	Raisin			.29		T.				.01	.02		.12	.08			T.	.10	.10			.03	.01	.02			.05	.48	T.			1.29
Grass Lake	Grand			.25		T.				T.			.50				T.		T.				T.	T.			.16	.38	T.			1.29
Grayling	Au Sable																															
Harbor Beach	Lake		.20	.60			.50						.20			.20						.20		.20				.05				2.15
Harrison	Saginaw		.25	.40									.28			.19				.12		.28	.08								1.60
Harrisville	Lake		.20							T.		.05	.30			.40						.30	T.			.05	.10				1.40
Hart	Pentwater					.10				.40		.20	.40			.10										.40					1.60
Hayes	Pigeon		.60										.30			.20					.20					.43					1.63
Highland	Huron		.61										.30	.05	.10								.10	.10	.10		.20	1.15				2.71
Hillsdale	Saint Joseph		.13	.05		T.				T.	T.		.38	T.			.05	.10				T.	.05	.05	T.		.25	.40				1.46
Holland	Lake		.15	.05						.02	.05		.09						.05	.35	.08	.25	.20	.15			.66	.08				2.18
Howell	Saginaw		.10	.15						T.			.10			.10					T.		T.	.05		1.00					1.50
Ivan	Manistee		T.			.06	.06		T			T.	.06			.20	.04			T.	.12	.19	T.	T.		T.	.20	.08				1.01
Jackson	Grand																															
Jeddo	St. Clair		.30	T.							.02		.25	.25	T.	T.		.05	.05			.10	.02	.10			.05	.25				1.44
Kalamazoo	Kalamazoo		.12							.05			.20				.26				.17		.02			.48					1.30
Lansing	Grand		.03	.27			T.			T.	.03		.25			.01	T.				T.	.07	.03	.02			.25	.35				1.31
Lapeer	Saginaw		T.	.40									.05					T.					T.	T.			.03	.71				1.19
Ludington	Pere Marquette		T.			.07				.12						.40	.20					.40	*	.50			.12					1.81
Luther	Manistee		.03	T.		T.	.01		.01		T.	.01	.26		.02	.14	.03		T.	.21	T.	.23	.01	.08			.37	.11				1.52
Mackinaw	Lake	.05	.02		.02							.10				.10					.05						.05	.60				0.99
Manceiona	...do				T.	T.						T.	T.			T.					.60		T.	T.		T.	.20					0.80
Manistee	Manistee					.10	T.				.10	.40	T.		T.	T.				T.	.50		T.	T.			.40					1.50
Midland	Saginaw		.04						T.				.35		T.							.35	T.	.25			T.					0.99
Montague	White																															
Morenci	Maumee		.01	.20						.03			.19			.04		.07				.10					.12	.65	.24			1.65
Mount Clemens	Clinton			.05							T.		.40	T.				.10	.10				T.	T.			.05	.45	.07			1.22
Mount Pleasant	Saginaw			.10							.20		.05			.01																
Muskegon	Muskegon		T.	T.		T.	T.			T.			.10	.10		.10	T.			.60	T.	.10	.20	.20			.12	.05				1.57
Old Mission	Lake					.08		.12					.15			.15	.10		.08		.22					.20	.10					1.20
Olivet	Kalamazoo		.14	.18						T.			.28	T.		.01	T.				T.	.02		.10			.48	.38				1.59
Omer	Lake		T.										.40		T.	.20				T.			.40				.65					1.65
Onaway	Cheboygan												.25			.60							.70			.60						2.15
Ovid	Grand																															
Owosso	Saginaw		.10	.40					T.	T.	.10		.25															.50				1.35
Petoskey	Lake		.12		T.	T.			T.			T.				.50	.20		.20	.25	.40	.10	.10	.10			.40					2.37
Plymouth	Rouge			.50						T.		T.	.40					T.						T.				.60				1.50
Pontiac	Clinton		.02	.45							.03		.23	T.	T.	.05		.02	.05				.04	.08		T.	.05	.40	.05				1.47
Port Austin	Lake																															
Port Huron	St. Clair		.10	.25					T.	T.	.01	T.	.21		T.	T.	T.	.05	T.		.02	.10	.03				.31	.17				1.25
Reed City	Muskegon		.03	.10							.10		.15			.05				.40	.10						.50					1.43
Roscommon	Au Sable		T.										.10			T.	T.				.30	.10	.10	.20		T.						0.80
Saginaw	Saginaw		T.	.25	.10		T.		.05	T.	.05		.40		.05	.15	T.					.15	.10				.10	.25				1.65
Saginaw, W. S.	...do		.05	.14		T.			T.	T.	.01		.22	T.	.02	.11						.20	.02	.02			.17	.27				1.23
St. James	Lake			.05		.10							.15			.40					.20					.05	.40					1.35
St. Johns	Grand																															
St. Joseph	St. Joseph		.15			.20	T.					T.					T.	T.				.10	.05	T.			.90					1.40
Sandusky	Lake			.80									.20				.40	T.									.90	.47				2.77
Saranac	Grand			.30							.07		.15			.02						.07	.03	.04			.37	.31				1.36
South Haven	Lake						.20											.10					.20				.20					0.70
Stanton	Grand		.10								.10		.20		.10						.20		.20				.01					0.91
Thornville	Saginaw		.10								.15		.40	.30				.20	.10		.20		.10		.18	.20						1.93
Traverse City	Lake											.05							.10		.50											0.65
Vassar	Saginaw			T.									.20		.10	T.											T.					
Wasepi	St. Joseph		.14										.18	.18			.13				.02		.12				.80	.05				1.62
Webberville	Grand		.02	.16							.10		.22									T.	.05	.10			.41	.20				1.26
West Branch	Lake												.05					.30	T.			.05					T.					
Woodlawn	Au Sable		T.	.10	.10							.25				.40					.65		.20									1.70
Ypsilanti	Lake		.05	.43									.30	.05		T.		.30				.10	.02	.02			.40	.65	.12			2.44
Ohio.																																
Akron‖	Lake	T.		.13	.10	T.	.02				.48		.61	.06			.90	.45	.30			.20	.03					.10	.30				3.68
Benton Ridge	Maumee			T.			.03			.30			.30				.20	.80	.10			.05	.05	.05				.65	.05				2.58
Bowling Green	Lake			.31	T.	T.				.20			.30				.15	.25	.25				.10					.74	.08				2.38
Bucyrus	Sandusky			T.						.60			1.00				.50	.70	.20			T.	T.			T.	1.10	.50				4.60
Cleveland (1)	Lake			.34		.05	T.			.58	.04	.43	.47	.06	T.	T.	.42	.54	.04			.06	.08	T.	T.		.01	.86	T.			3.98
Cleveland (2)	...do		.25	.25		.05	T			.25	.41	T.	.60	.55		.07	.85	.55					.04				.20	.90	.01			4.98
Defiance	Maumee			.22						.06			.15				T.	.21	.05			.06	T.				.11	.34	.14			1.34
Findlay‖	...do			.95						.40			.40					.60	.60			*	.05	T.				.48	.42				3.90
Fremont	Sandusky		*	.36						.23			.29				*	.81				T.	.12	.02			*	.85				2.68
Hedges	Maumee			.34						.20			.60		.30			.50				.26	.10	T.			.14	.65	.11			3.20
Hillhouse	Lake			.50		T.	T.			.46	.11	T.	.60	.25	T.	T.	T.	.40	.30			T.	.15	.10			T.	.40	.40				3.67
Hiram	...do			.42	.03	T.	T.			.41	T.	.03	.41	.10			.23	.75	.25				.08	.08				.56	.38				3.73
Hudson	...do			.31		.05	.10			.50			.50	.30			.10	.90	.40				.10	.10				.35	.48				4.19
Lima	Maumee			.35						.50			.30				.50	1.00				T.	.10	T.			T.	.88	.10				3.73
Medina	Lake			.51		T.				.60			.48				.30	.40	.60				.06					1.03	.35				4.33
Montpelier	Maumee			.38		T.				T.		.30	.10				T.	.40					.10	T.			.83	.20					2.31
Napoleon	...do			.35						.10			.18				.02	.15	.13			.06	T.				.09	.61	.17				1.86
New Bremen	...do			.17		T.				.50			.45				.40	.80				.10	T.					.62	.18				3.22
North Royalton	Lake			.30		.10				.40			.80	.40			.20	.40	.30					.10				.75	T.				3.75
Norwalk	...do				.24	T.				.30			.90	.20			.15	.50	.70				.10	.50				.60	.49				4.68
Oberlin	...do			.30		.06	.12			.40			.68	.09			.10	.62	.52			T.	.13	.06				.62	.45				4.15
Ottawa	Maumee		.05				T.			.40		T.	.14	T.			.11	.30	.03			T.	.05	.05			.07	.69	T.				1.89
Rome	Lake																															
Sandusky	...do		.10	.21		.02				.18	T.	.18	.29	T.	T.	T.	.55	.55			T.	.01	.06				.02	.80	T.				2.97
Tiffin	Sandusky			.32		T.	T.			.40	T.	T.	.40	.10	T.		.20	1.00	.10			T.	.10	T.			T.	.89	.32				3.83
Toledo (1)	Maumee		.11	.18		T.	T.			.10	T.	.06	.20	T.	T.	T.	.26	.23	T.		.13	.07	.06				.34	.58				2.32
Toledo (2)	...do			.29		T.	.01			.08	T.		.23	.01			.03	.35	.07			.20	.06	T.			.10	.47	.05				1.97
Upper Sandusky	Sandusky			.05						.60			.60				.15	.80	.25		.05			.10			T.	.73	.37				3.70
Vickery	Lake			.32		T.				.20	T.		.25	.02			.13	.40	.05				.08	.05				.69	.31				2.50
Wauseon	Maumee		T.	.30		T.	T.			.08	.01		.22				.02	.21	.06			.14	.02	.03			.12	.67	.06				1.94
Wellington	Lake			.38		T.	.10			.60		.01	.97	.02		.01	.31	.30					.10					1.00	.56				4.36
Willoughby‖	...do			.65							.50		.50	.20			.10		.60			.28							1.17				4.00
Pennsylvania.																																
Erie	Lake		T.	.32		.05				.50	.04	.14	.45	.02	.03	.01	.08	.68	.06			.18	.18				1.23	.05					4.02

TABLE 2.—*Daily precipitation for February, 1910. District No. 4*—Continued.

Stations.	River basins.	Day of month.																													Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
New York.																															
Adams Center	Lake	.25	.20	.60	.50	.40	.40	T.		.20	.40	.20	1.40	.20	.70	.20	.22	.20	.40	.30	.20	.25	.10	.40	.30	T.	.30	.52	.22				9.06
Angelica	Genesee			.29	.02	.01		.01		.10	.12		.92	.03	.01	T.	.11	.49	.38			T.	.32	.11				.36	.47				3.75
Appleton	Lake		T.	.50			T.			.17			.75	T.		T.	.20	.03	.22			.15	T.		T.			.35	.35				2.72
Auburn	Oswego			.12			.06			.08			1.30				T.	.46	.84			T.	.32					.30	.52				4.00
Avon	Genesee	T.		.20	.08	T.	T.	T.		.12	.12		.92	.10		.02	.08	.25	.20			T.	.22					.26	.85				3.42
Benson Mines	St. Lawrence																																
Blue Mountain Lake	Raquette			.80		.20				*	.30		1.20	.10	.30		T.	.60				.27	.50	.40				.85	.65				6.17
Brockport	Lake	T.		.60						.22	.17		.72	.12		.02	.10	.32	.75			.03	.10			T.		.23	.70				4.08
Buffalo	Lake		T.	.50		.01	.11	T.		.28	.10	.20	1.41	.08	.08	.22	.16	.86	.16			.18	.21			T.		.87	.36				5.74
Canton	St. Lawrence	T.	.01	.15	.02	.06		T.		.40	.40		.24	.06	.01	.05	.02	.17	.02	.01		.11	.03	.11				.54	.46				2.87
Cape Vincent	....do			.46					T.	.50			.10						.06	T.		.08		.04				16	.19				1.59
Carvers Falls	Lake			.71	.50					.32			.52					.37				.32	.29	.18				.48	.92				4.61
Chazy	....do			.50									1.00		.10				.60														2.20
Dannemora	....do	T.	T.	.30	.18			*	.05	T.	T.	*	1.40	*	.15	.10	T.	T.	T.		*	.05	.15	.70			*	.40	.40				3.85
Elba	Lake		.10	.60		T.	T.	T.		.30	.40		1.00	.20	T.	T.	T.	T.	.40	.80		T.	.20	.40				1.00	.05				5.45
Fayetteville	Oswego			.50	.06	.06	T.			.02	.02	T.	.85	.16	.04		T.	.30	.41			.03	.32	T.			.01	.71					3.49
Gabriels	Lake	T.	.04	.25	.11	.06	T.	T.	.03	.02	.26	T.	.48	.05	.08	.07	T.	.06	.55	T.		T.	.14	.22	.02			.10	.02				2.56
Harkness	....do			.50	.10		.05						.85	.03				.72					.10	.10				.07	.48				3.00
Hemlock Lake	Genesee																																
Hunt	....do			.30		.21				.30			1.08			T.		.90					.18					1.02					3.99
Ithaca	Oswego	T.		.40		.02	.05	.02		.08	.01	.30	.59	.02	T.	T.	.14	.89	.02		.03	.05	.34			T.	T.	.16	.19				3.31
Keene Valley	Au Sable			.68								T.	1.04	.10	T.	T.		.18	.65			T.	.15	.28				.89	.38				4.35
King Ferry	Oswego			.37	.04		.02	.02		.15			.84	.08			.06	.33	.36				.26					.06	.30				2.89
Lake George	Lake			1.07	.33					.17	T.		1.02			.21		.26	.71		.47		.35	.34				.63	.58				6.14
Lake Placid Club	Au Sable, W. Br.	T.	.05	.80	.05	.30			.02		.60		1.15	.05	.43	.05	.46	.05	1.10			T.	.31	.25				.36	.54				6.57
Le Roy	Genesee	.02	T.	.62		.05	.05	.04		.36	T.		.94	.12	T.	.07	.07	.34	.40			.07	.21	.15				.24	.77				4.52
Lockport	Lake			.65		.04	.03	T.		.20	.18		.82	.14		.05		.15	.85	T.		.11	.04	.03		T.		.28	.43				4.00
Lowville	....do			.80						.25			1.35		.10			.50				T.						1.15	.39				4.54
Lyndonville	....do			.39						.23			.57			.03			.21						.13			.63					2.19
Moira	St. Lawrence		T.	.35	T.	T.				.05	.65		.70	.40	.20		.20		.90	.10				.20				.27	.53				4.55
Nehasane	Lake			.82	.07	.38					.41		1.29	.09	.60	.09		.10	.61			.32	.40	.90				1.14	1.02				8.24
North Lake	....do																																
Ogdensburg	St. Lawrence		T.	.13	T.	T.			T.	T.	.20	T.	.18	.07		T.	.15		.33			.09		.05				.19	.50				1.89
Old Forge	Lake		.02	.89	.10	.30				.10	.39		1.20	.09	.69	.05	.05	.10	.40	.02		.25	.45	.30				.19	.25				5.84
Oswego	....do	T.	.02	.59	T.	.01	.02	T.		.26	.06	.20	1.41	.10	.03	.03	T.	.44	.14			.03	.15	.27	.38		T.	.49	.39				5.02
Otto	....do			.64							.54	T.	.42	.07				.10	.45			T.	.14	T.				.41	.70				3.47
Palermo	Lake	.20			.50	.04	.12	.10		.03	.41	2.41	.50	T.	T.	.03	.05	.21	.13	.05		.04	.18	.22	.31	.05	.03	.06	.86				6.53
Perry City	....do			.40						.20	T.	.08	1.35	.15			.16	.64	.70				.45					.06	.18				4.37
Philadelphia	St. Lawrence		.04	.30	.04	.02				.08	.75		.62	.04		.04	.05		.32	.03		.12		.10				.31	.46				3.32
Plattsburg	Lake		.01	.10	.51		T.				T.		.70	.03		T.		T.	.67			.10	T.	.09				.09	.50				2.80
Potsdam	St. Lawrence		.27	.34		.18				T.	1.10		.41					*	1.06			T.	T.	T.				.20					3.56
Raquette Lake	Raquette		*	.77	.31	.22				T.	.23		.69	.16	.20	T.		.21	.86			.16	.43	.23				.85	.89				6.21
Rochester	Genesee	T.	.02	.43		.02	.11	.01		.34	T.	.03	.87	.13	T.	.03	.04	.61	.08			.02	.11	.07		T.		.55	.26				3.73
Romulus	Oswego	T.		.33	.03			.20		.03	.20		1.60				T.	.65	.60			T.	.66					.10	.31				4.77
Shortsville	....do			.20		T.	T.			.50	T.		1.00					T.	.42				.30	T.				.40	.50				3.32
Skaneateles	....do			.55		.14	.10				.17		.65	.10		.06	.35		.20	.12	.28	.07		.05	.10	.11	.18	.12	.75				4.10
Syracuse	....do	T.	.03	.44	.01	.05	.04	T.		.06	T.	.32	.90	.09	T.	T.	.05	.49	.04			.01	.43	T.	T.	T.	T.	.56	.12				3.64
Ticonderoga	Lake			.90	.09					T.			.70	T.		T.		.04	.35			.50	.30				1.35					4.23
Trudeau	....do	.63	.22	.27		.05	T.	T.		.07	T.	.03	.27	.24	.18	.29		.21	.10	T.		.12	.14	.22	.29	T.		.33	.20				3.86
Tupper Lake	St. Lawrence			.80	.10	.25				T.	.15		1.50		.18		.03		.50			.05	.13	.40				.50	.20				4.79
Volusia	Lake			.25		.11	.45			.24	.30		.75	.18			.10	.18	.25			.11	.10	.11				.28	.90				4.31
Watertown	....do																																
Wedgewood	Oswego	.01		.48	T.	.04	.15	T.		.48	T.	*	.95	T.		T.	.10	.60	.23			.02	.40	.10				.05	.30				3.91
Westfield	Lake		T.	.41		.17				.48	.33		.80	.19	.17		.09	.17	.80			.06	.09					.46	.76				4.98
Youngstown	....do			.72							.14		1.13			.05		.28	.51		.14							.27	.33				3.57
Vermont.																																	
Burlington	Lake		T.	.79	.07	T.	T.	T.	T.	.06	.04		.67	.05	.01	T.	.01	.31	.66			.04	.19	T.	T.			.15	.05				3.10
Cornwall	....do			.70				T.		.05			.70		T.	T.		.14	.70			.05	.20	T.					.22				2.76
Enosburg Falls	....do			.31	.15	.10				.04	.22		.44	.07	.04			.07	.82			.28	.10	.10				.15	.65				3.54
Northfield	....do			.84	.14	T.	T.			.04	.08		.71	.04	T.	.02	.02	.39	.28			.14	.26	.04				.32	.31				3.63
Rutland	....do																																
Wells	....do			.63	.27						.23		.35	.15			T.	.31	.78			.32	.33					.49	1.15				5.01

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 4, Lake Region.*

Date.	Wisconsin.						Michigan, Upper Peninsula.								Michigan, Lower Peninsula.							
	Duluth, Minn.		Florence.		Green Bay.		Milwaukee.		Chicago, Ill.		Fort Wayne, Ind.		Escanaba.		Ewen.		Houghton.		Marquette.		Sault Ste. Marie	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	28	9	26	5	27	9	28	16	30	17	28	16	29	17	34	17	32	19	28	15	28	15
2	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
3	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
4	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
5	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
6	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
7	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
8	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
9	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
10	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
11	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
12	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
13	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
14	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
15	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
16	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
17	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
18	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
19	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
20	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
21	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
22	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
23	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
24	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
25	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
26	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
27	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
28	26	14	26	11	25	11	26	16	28	19	28	16	28	14	30	21	28	16	28	15	28	15
Mns	17.9	— 1.1	22.0	— 0.1	24.0	6.4	26.8	11.8	31.4	18.2	35.9	16.6	23.5	5.0	21.8	— 5.9	20.2	4.2	22.7	7.6	20.3	— 1.0

Date.	Michigan, Lower Peninsula.								Ohio.								New York.					
	Alpena.		Battle Creek.		Cadillac.		Detroit.		Muskegon.		Saginaw, W. S.		Cleveland.		Lima.		Sandusky.		Toledo.		Erie, Pa.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	30	17	32	16	33	16	31	20	29	13	33	14	31	15	34	16	35	15	35	15	32	20
2	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
3	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
4	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
5	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
6	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
7	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
8	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
9	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
10	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
11	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
12	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
13	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
14	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
15	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
16	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
17	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
18	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
19	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
20	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
21	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
22	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
23	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
24	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
25	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
26	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
27	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
28	31	17	36	16	33	16	33	24	31	15	36	16	33	16	36	16	36	16	36	16	34	21
Mns	31.4	16.2	34.9	17.0	31.8	17.2	32.4	17.4	31.6	15.8	29.8	14.0	25.3	5.2	29.6	14.7	29.9	14.3	25.5	6.7	26.5	3.1

Date.	New York.								Vermont			
	Buffalo.		Canton.		Rochester.		Syracuse.		Burlington.		Northfield.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	28	15	24	10	26	15	26	11	20	4	22	6
2	28	15	24	10	26	15	26	11	20	4	22	6
3	28	15	24	10	26	15	26	11	20	4	22	6
4	28	15	24	10	26	15	26	11	20	4	22	6
5	28	15	24	10	26	15	26	11	20	4	22	6
6	28	15	24	10	26	15	26	11	20	4	22	6
7	28	15	24	10	26	15	26	11	20	4	22	6
8	28	15	24	10	26	15	26	11	20	4	22	6
9	28	15	24	10	26	15	26	11	20	4	22	6
10	28	15	24	10	26	15	26	11	20	4	22	6
11	28	15	24	10	26	15	26	11	20	4	22	6
12	28	15	24	10	26	15	26	11	20	4	22	6
13	28	15	24	10	26	15	26	11	20	4	22	6
14	28	15	24	10	26	15	26	11	20	4	22	6
15	28	15	24	10	26	15	26	11	20	4	22	6
16	28	15	24	10	26	15	26	11	20	4	22	6
17	28	15	24	10	26	15	26	11	20	4	22	6
18	28	15	24	10	26	15	26	11	20	4	22	6
19	28	15	24	10	26	15	26	11	20	4	22	6
20	28	15	24	10	26	15	26	11	20	4	22	6
21	28	15	24	10	26	15	26	11	20	4	22	6
22	28	15	24	10	26	15	26	11	20	4	22	6
23	28	15	24	10	26	15	26	11	20	4	22	6
24	28	15	24	10	26	15	26	11	20	4	22	6
25	28	15	24	10	26	15	26	11	20	4	22	6
26	28	15	24	10	26	15	26	11	20	4	22	6
27	28	15	24	10	26	15	26	11	20	4	22	6
28	28	15	24	10	26	15	26	11	20	4	22	6
Mns	29.3	15.6	29.2*	15.3*	30.5	12.6	31.4	16.2	34.9	17.0	31.8	17.2	32.4	17.4	31.6	15.8	29.8	14.0	25.3	5.2	29.6	14.7	29.9	14.3	25.5	6.7	26.5	3.1

Climatological Data for February, 1910.
DISTRICT No. 5, UPPER MISSISSIPPI VALLEY.

GEORGE M. CHAPPEL, District Editor.

TEMPERATURE.

For a winter month February was very pleasant over the upper Mississippi Valley, although it was somewhat colder than usual, especially during the second and third decades. The month opened with the day temperatures above the freezing point, except in North Dakota, and the night temperatures were moderate for the season in all sections. These conditions continued over the larger part of the district until the 8th or 9th and were then followed by alternating periods of low and moderate temperature; the coldest period being between the 15th and the 24th, when the minimum temperatures were considerably below zero in the northern sections and were below zero on one or more days in the southern sections, except in the extreme southern portion of Illinois.

In North Dakota the temperature was above the normal during the first 8 days. From the 9th to the 27th, inclusive, the temperature averaged decidedly below the normal. The period from the 15th to the 23d, inclusive, was without exception the coldest 9 consecutive days in the history of the climatological service of this State. With but 2 exceptions, the minimum temperature for the month was recorded during the latter period. Sixteen stations recorded minimum temperatures of −30° or below. The temperature on the 28th was considerably above the normal and the maximum for the month was generally recorded on that day.

In Minnesota there was a deficiency of temperature of 3° to 5° per day, the mean for the month being 6.2° lower than in February, 1909, and 5.2° warmer than the coldest February, that of 1904, when the mean was 2.3°. The mean temperature ranged from somewhat above 12° in the southern tier of counties to slightly below zero in Roseau and Kittson counties, in the extreme northwestern part of the State. The deficiency of temperature was general in all counties. An unusually cold period extended from the 15th to the 25th.

In Wisconsin the weather was cold but there were not many severe storms during the month. The mean temperature was about 1° below the normal. During the first half of the month the temperature was between zero and the freezing point most of the time, but during the latter half the weather was much colder and the minimum temperature was considerably below zero, except in the southern counties, on nearly every day. The lowest temperature for the month occurred between the 18th and the 25th, the lowest for the section being −42° at Long Lake, on the 18th. The mean ranged from 6° at Prentice to 20° at Beloit.

In Iowa the weather was exceptionally pleasant notwithstanding the fact that the average temperature was below the normal. The month opened with moderate temperature which continued until the 5th, and was then followed by alternating periods of cold and warm weather, with the coldest spell between the 22d and the 24th. The warmest day was generally on the 1st in the northern and on the 14th in the central and southern counties. There have been 8 colder Februaries during the past 20 years. In 1905 the average temperature was 5° lower than the average for the past month. The coldest February in the past 20 years was in 1899, when the mean temperature was 12.2°.

In Missouri there were alternating periods of freezing and thawing weather during the first half of the month, but during the latter half persistently low temperatures were the rule. There were 3 distinct cold periods; the first extended from the 10th to the 13th, the second was from the 16th to the 19th, and the third, from the 22d to the 25th. The temperatures were lower in the second period in the southern part of the section than they were in the northern counties, but during the last-named period the temperatures were lower in the northern part of the State. The temperature extremes for the month were 65° on the 15th and −14° on the 18th.

In Indiana the temperature was nearly normal and no notable conditions occurred until the 18th, when a cold wave, accompanied by zero temperatures passed over the section. Another cold spell, with temperatures below zero, was experienced on the 23d and 24th.

The temperature departure for stations in Illinois, within the Fifth District, was 1.0° below the normal. The highest monthly mean was 34.4° at Cairo; the lowest, 17.2°, at Dakota and Lanark, and the monthly mean was 25.0°. The temperature ranged from 68° on the 15th to −24° on the 18th.

The monthly mean temperature for the district, as shown by the records of 297 stations, was 14.9°, which is 1.7° below the normal. The highest monthly mean was 34.4°, at Cairo, Ill.; and the lowest monthly mean, −1.5° at Roseau, Minn. The highest temperature reported was 68° at Griggsville, Ill., on the 15th; and the lowest, −43° at Bagley and Pine River Dam, Minn., on the 18th. The greatest daily range was 57° at Park Rapids, Minn., and Osceola, Wis. The average of the greatest daily ranges was 38°.

PRECIPITATION.

There was a marked deficiency of precipitation over the larger part of the district and a corresponding excess of sunshine. Most of the precipitation occurred in the form of snow, except over the southern sections. Snow fell quite generally on the 20th and 22d, and rain fell at many stations in the central and southern sections on the 26th. The heaviest precipitation occurred in Illinois. The ground was covered with snow during the entire month north of central Iowa and northern Illinois, but was practically bare in southern districts, except from the 20th to the 24th.

The precipitation was unevenly distributed throughout the eastern portion of North Dakota but, taken as a whole, was about the normal. The average depth of snowfall was 4.2 inches. There was an average of 3 days with precipitation, 15 clear days, 6 partly cloudy and 7 cloudy days.

In Minnesota the precipitation ranged from one-tenth of an inch, or less in a number of southern counties, to over an inch in a wide belt extending across the center of the State from Bigstone, Traverse, and Chippewa counties to Lake Superior. The deficiency of precipitation was general, except within this belt. The heaviest storm of the month occurred on the 15th. The snowfall was unusually light, but a very unusual depth of old snow remained on the ground throughout the month.

In Wisconsin the precipitation was exceptionally light even for February, which is one of the driest months of the year. The average amount for the section was 0.72 inch, which is about 0.40 inch below the normal. The fall was especially light in the Black River Valley, where the total was from 0.19 to 0.50 of an inch. Practically all of the precipitation occurred on the 15th, 22d, 25th, and 26th, and nearly all of it was in the form of snow. The ground was well covered with snow at all times, and at the end of the month there was about 12 inches on the ground. Much of this snow has been on the ground during the past 3 or 4 months, and as a result the soil is not frozen to any great depth. There were 13 clear days during the month, which is an unusually large number for this season of the year.

There was a marked deficiency of precipitation in Iowa; the average for the State being only 0.46 inch, which is 0.60 inch

below the normal. At several stations it was the driest February in over 30 years. There were no severe storms, and the 20th and 22d were the only days on which the precipitation was general. The ground was practically bare from snow over the southern counties, except from the 20th to the 24th; but over the northern counties there was snow on the ground during the entire month.

In Missouri there was less precipitation than usual; the average deficiency for the district being nearly an inch. The soil, however, is reported to be well saturated. The snowfall was exceptionally light, but covered the ground to an appreciable depth from the 16th to the 22d. The wet and most unpleasant periods were from the 2-3d, 8-12th, 16-17th, and 20th-22d.

Light rain fell over most of that portion of Indiana, within the Fifth District, on the 2d and 3d, and heavy rain on the 26th and 27th; the amount during the latter storm was considerably more than one-half the total precipitation for the month. The precipitation during the interval between the two storms mentioned fell mostly in the form of snow, the heaviest amount being recorded on the 16th and 17th. The closing days of the month were comparatively warm, rainy, and foggy. The heavy rain during this time caused a considerable rise in the streams, but not such as to produce any material damage.

The average precipitation in Illinois was 1.62 inch, which is 0.64 inch below the normal. The average snowfall was 6.7 inches. The precipitation was notably deficient in the central and northern counties of the district, and mostly excessive in the southern counties. The coverings of ice and snow in the northern counties during December and January lasted through the greater portion of February.

The average precipitation for the district, as shown by the records of 311 stations, was 0.75 inch, or 0.52 inch below the normal. The greatest amount, 5.71 inches, occurred at Mount Vernon, Ill., and none occurred at Grafton and Pratt, N. Dak. The greatest amount in 24 hours, 3.00 inches, occurred at Mount Vernon, Ill., on the 17th. The average depth of unmelted snowfall was 5.4 inches; the greatest depth was 22.0 inches, at Hillsboro, Ill., and none occurred at Grafton and Pratt, N. Dak. Measurable precipitation occurred on an average of 4 days. The average number of clear days was 13; partly cloudy, 7; and cloudy, 8. The duration of sunshine was above the normal. Northwest winds prevailed.

MISCELLANEOUS.

All rivers, except in the extreme southern part of the district, were frozen over during the entire month. In Wisconsin the ice averaged about 20 inches in thickness; in Iowa, from 10 to 22 inches; and in northern Illinois, about 15 inches. The Mississippi River was open below the mouth of the Missouri River. Most of the rivers in the district were at about the average winter stage.

TABLE 1.—*Climatological data for February, 1910. District No. 5, Upper Mississippi Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
North Dakota.																				
Amenia	Cass	954	12	3.7	− 3.5	43	1	−26	19	50	0.40	+ 0.06	0.40	4.0	1	12	11	5	nw.	C. E. Wood.
Bottineau	Bottineau	1,638	14	−0.6	− 1.1	35	28	−33	23	39	0.13	− 0.27	0.05	.....	4	13	6	9	nw.	J. A. Kemp.
Cando	Towner	1,488	8	1.0	.....	39	28	−33	23	49	0.36	+ 0.27	0.26	4.0	2	19	5	4	w.	E. T. Judd.
Crosby	Williams	.....	3	2.8	.....	38	28	−29	18†	33	0.64	.....	0.25	5.5	4	12	9	7	nw.	H. C. Kaschau.
Devils Lake	Ramsey	1,482	4	2.8	− 1.7	38	28	−28	18	37	0.27	− 0.26	0.10	3.6	7	13	5	10	w.	U. S. Weather Bureau.
Donnybrook	Ward	1,760	10	6.0	− 0.6	40	28	−26	2†	43	0.30	− 0.12	0.10	3.0	4	16	0	12	nw.	C. J. De Vore.
Dunseith	Rolette	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. H. Trowbridge.
Edmore	Ramsey	1,524	4	3.2	.....	50	7	−31	18	43	0.45	.....	0.20	4.5	3	20	5	3	w.	H. R. Aslakson.
Forman	Sargent	1,249	15	5.8	− 3.0	38	28	−32	19	43	0.90	+ 0.46	0.50	9.0	4	9	11	8	nw.	A. Maltby.
Grafton	Walsh	827	12	5.6	+ 0.2	33	28	−27	23	37	0.00	− 0.52	0.00	0.0	0	9	14	5	n.	H. La Moure.
Granville	McHenry	1,504	3	3.2	.....	41	28	−30	18	39	0.18	.....	0.08	4.0	3	.....	.....	.....	nw.	W. A. Christiansen.
Hannah	Cavalier	1,568	4	2.3	.....	38	28	−30	18	46	0.30	.....	0.20	3.0	2	17	4	7	nw.	J. Moffatt.
Hansboro	Towner	.....	2	2.8	.....	36	28	−29	22†	36	0.21	.....	0.13	1.8	4	14	4	10	nw.	Geo. Dale.
Hillsboro	Traill	901	4	6.6	.....	36	28	−22	19†	37	0.27	.....	0.10	2.7	7	14	9	5	n.	M. H. Norman.
Lakota	Nelson	1,519	3	1.4	.....	34	28	−26	18†	40	0.90	.....	0.25	6.0	8	9	14	2	nw.	C. R. Pettes.
Langdon	Cavalier	1,615	14	−0.4	.....	31	27	−30	18	38	0.11	.....	0.06	.....	3	16	0	12	nw.	J. Woolner.
Larimore	Grand Forks	1,134	14	4.6	− 0.4	36	28	−26	23	37	0.60	+ 0.26	0.20	6.0	4	13	10	5	w.	S. R. Britton.
Lisbon	Ransom	1,091	5	2.0	.....	39	28	−34	18	42	0.80	.....	0.50	8.0	2	20	2	6	nw.	H. K. Adams.
McKinney	Ward	1,640	15	2.6	− 1.3	40	28	−32	23	46	0.20	− 0.10	0.20	2.0	2	8	16	4	nw.	N. P. Swenson.
Manfred	Wells	1,605	8	4.9	.....	40	28	−31	18	36	0.45	.....	0.20	4.5	4	11	8	9	nw.	P. B. Anderson.
Mayville	Traill	975	14	7.0	− 0.4	36	1	−24	22	31	0.72	+ 0.29	0.40	7.2	4	18	5	5	nw.	M. N. Pope
Minot	Ward	1,557	11	6.4	+ 0.0	42	7	−27	19	45	0.53	+ 0.11	0.40	5.3	4	20	2	6	w.	J. J. Bates.
Minto	Walsh	820	16	5.7	+ 0.7	39	14	−23	23	40	0.33	− 0.16	0.15	.....	6	8	12	8	n.	S. S. Marsh.
Oriska	Barnes	1,270	4	2.4	.....	37	28	−24	18	30	0.44	.....	0.40	4.4	3	.....	.....	.....	.....	W. E. Williams.
Park River	Walsh	998	6	5.8	.....	36	28	−25	23	34	0.13	.....	0.05	.....	3	12	11	5	nw.	A. Heyward.
Pembina	Pembina	789	11	0.8	+ 1.7	33	28	−30	22	34	0.30	− 0.09	0.20	3.0	2	13	9	6	w.	C. W. Shumaker.
Portal	Ward	1,954	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. S. Davis.
Power	Richland	1,020	17	3.4	− 4.8	35	1†	−31	10†	46	0.65	+ 0.10	0.50	6.5	3	14	9	5	se.	J. A. Power.
Pratt	McHenry	.....	5	1.4	.....	37	28	−32	22	40	0.00	.....	0.00	0.0	0	22	1	5	nw.	C. H. Butts.
University	Grand Forks	830	18	4.6	− 2.5	37	28	−25	23	40	0.13	− 0.30	0.10	1.3	3	17	0	11	n.	W. R. Holgate.
Wahpeton	Richland	962	18	2.5	− 8.5	36	1†	−36	18	38	1.50	+ 0.98	1.50	15.0	1	16	3	9	nw.	E. G. Burch.
Walhalla	Pembina	966	5	2.8	.....	42	6	−25	21	41	T.	.....	T.	T.	0	22	3	3	nw.	C. H. Lee.
Westhope	Bottineau	.....	3	1.4	.....	37	28	−33	23	41	0.02	.....	0.02	.....	1	17	3	8	nw.	J. D. Currie.
Willow City	....do	1,471	16	0.0	− 2.9	38	28	−36	16	43	T.	− 0.40	T.	T.	0	11	6	11	nw.	M. A. Ostby.
Minnesota.																				
Albert Lea	Freeborn	1,229	20	11.5	− 3.8	38	1	−17	23	32	0.07	− 0.80	0.07	1.0	1	8	15	5	nw.	Edward Carey.
Alexandria	Douglas	1,391	16	7.5	− 1.9	37	6†	−30	18†	41	0.90	+ 0.34	0.70	10.7	6	13	4	11	nw.	P. O. Unumb.
Angus	Polk	870	8	2.2	.....	36	28	−32	23	44	0.12	.....	0.10	1.2	2	17	0	11	n.	John Nadvornik.
Bagley	Clearwater	.....	4	0.0	.....	38	28	−43	18	48	0.48	.....	0.29	5.0	3	15	10	3	nw.	Jens Nelson.
Baudette	Beltrami	1,084	1	1.4	.....	44	28	−33	18	46	0.35	.....	0.15	4.2	5	20	3	5	nw.	Franz W. Schmidt.
Beardsley	Bigstone	1,090	17	9.8	− 2.8	40	28	−24	19†	31	0.65	0.00	0.65	6.0	1	9	12	6	nw.	Roy A. Smith.
Beaulieu	Mahnomen	1,200	8	3.4	.....	34	1	−28	23	38	0.15	.....	0.15	1.0	1	14	4	10	nw.	Dr. L. A. Parkinson.
Bird Island	Renville	1,039	20	10.4	− 2.3	42	1	−21	19	30	0.45	− 0.15	0.26	4.5	4	11	5	12	nw.	Dr. F. L. Puffer.
Caledonia	Houston	1,179	17	12.7	− 2.4	40	1	−15	23	39	0.10	− 0.89	0.10	1.0	1	10	6	11	nw.	W. D. Belden.
Campbell	Wilkin	984	...	2.0	.....	38	4	−35	18	52	1.45	.....	0.60	14.5	6	9	4	15	nw.	J. T. Neiseas.
Cass Lake	Cass	1,300	4	.....	.....	.....	.....	.....	.....	.....	0.70	.....	0.25	10.0	4	.....	.....	.....	.....	C. W. Burns.
Collegeville	Stearns	1,282	17	10.9	− 4.0	39	1	−22	23	31	0.34	− 0.24	0.17	3.5	3	17	8	3	nw.	Fridolin Tembreul.
Crookston	Polk	863	20	2.6	− 3.2	37	28	−24	18†	43	0.45	− 0.31	0.11	4.5	6	18	2	8	n.	A. G. Andersen.
Detroit	Becker	1,364	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George W. Peoples.
Fairmont (near)	Martin	1,240	23	12.1	− 2.2	38	1	−14	17†	30	0.13	− 1.02	0.08	0.8	2	12	14	2	nw.	W. F. Wherland.
Faribault	Rice	1,003	13	10.1	− 5.4	41	1	−20	19	31	0.06	− 0.63	0.02	1.6	4	14	9	5	nw.	Dr. A. R. T. Wylie.
Farmington	Dakota	902	22	10.6	− 2.9	41	1	−22	23	31	0.15	− 0.94	0.10	1.0	2	14	5	9	nw.	D. F. Akin.
Fergus Falls	Ottertail	1,210	18	6.6	− 4.0	37	28	−30	18	34	0.85	+ 0.27	0.64	8.5	12	13	11	4	nw.	Chas. E. Kissenger.
Fort Ripley	Crow Wing	1,136	4	4.0	.....	32	2†	−40	18†	46	1.40	+ 0.70	1.00	15.0	4	19	0	9	s.	J. J. Tucker.
Fosston	Polk	1,289	1	2.2	.....	35	28	−29	23	41	0.22	.....	0.08	4.0	3	13	9	6	s.	O. N. Hem.
Glencoe	McLeod	1,000	14	11.1	− 4.3	43	1	−27	19	36	0.27	− 0.40	0.20	2.7	3	16	12	0	nw.	C. G. Selvig.
Grand Meadow	Mower	1,338	23	12.0	− 1.4	38	1	−20	23	33	0.17	− 0.92	0.12	1.7	2	16	8	4	nw.	C. F. Greening.
Hallock	Kittson	815	11	−0.8	− 3.0	35	28	−34	23	36	0.37	− 0.10	0.10	3.7	5	19	1	8	s.	D. A. Robertson.
Halstad	Norman	870	4	2.9	.....	37	28	−26	23	47	0.23	.....	0.15	8.0	2	19	6	3	s.	Aaron G. Holstrom.
Hinckley	Pine	1,050	5	8.7	.....	37	28	−31	19	37	0.60	.....	0.50	6.0	2	10	13	5	n.	W. R. Newman.
International Falls	Koochiching	1,112	2	2.2	.....	38	28	−28	23	37	0.60	.....	0.20	6.0	4	15	7	6	w.	Rees Roe.
Kelliher	Beltrami	.....	3	.....	.....	38	28	−32	18	43	.....	.....	.....	.....	.....	7	11	2	nw.	A. Gilmour.
Lake Crystal	Blue Earth	.....	3	11.0	.....	39	1	−21	18	34	0.14	.....	0.11	1.5	2	16	6	6	s.	W. P. Cobb.
Leech Lake Dam	Cass	1,301	22	4.2	− 2.6	38	28	−31	18†	47	0.56	− 0.12	0.30	6.2	4	3	19	6	nw.	Hans Olson.
Little Falls	Morrison	1,117	4	7.6	.....	36	28	−30	18	33	0.85	.....	0.70	8.5	3	15	11	2	nw.	Maurice Coleman.
Little Fork	Koochiching	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. C. Olson.
Long Prairie	Todd	1,299	18	5.2	− 4.6	38	28	−40	18	45	1.04	+ 0.54	1.02	10.2	3	13	11	4	nw.	R. M. Sheets.
Lynd (2)	Lyon	1,175	18	11.5	− 3.2	41	1	−22	10	35	0.24	− 0.24	0.09	3.0	3	16	7	5	nw.	J. W. Rouse.
Mankato	Blue Earth	747	11	.....	.....	.....	.....	.....	.....	.....	0.06	− 0.79	0.06	T.	1	15	3	10	sw.	Sadie H. Blake.
Mapleplain	Hennepin	1,023	18	9.8	− 2.2	44	1	−24	19	37	0.74	− 0.35	0.40	7.7	8	11	11	6	nw.	G. W. Richards.
Milaca	Millelacs	1,072	13	7.6	− 3.4	37	28	−36	18	38	0.36	− 0.65	0.20	7.0	2	15	9	4	nw.	C. H. Foss.
Milan	Chippewa	955	16	8.7	− 3.4	39	1	−22	19	34	1.12	+ 0.21	0.50	11.2	7	8	18	2	nw.	O. K. Opjorden.
Minneapolis	Hennepin	918	19	11.6	− 3.4	45	1	−18	23	27	0.51	− 0.22	0.46	6.1	6	14	7	7	nw.	U. S. Weather Bureau.
Montevideo	Chippewa	900	23	8.6	− 4.4	45	1	−19	23	40	0.37	− 0.37	0.12	7.7	6	9	6	13	nw.	Lloyd G. Moyer.
Moorhead	Clay	935	29	4.7	− 2.3	38	28	−29	18	37	0.52	− 0.21	0.34	6.2	7	16	9	3	nw.	U. S. Weather Bureau.
Mora	Kanabec	.....	5	8.2	.....	38	1†	−41	18	46	0.93	.....	0.80	9.5	3	22	2	4	w.	Hans Peterson.
Morris	Stevens	1,170	25	7.3	− 3.1	36	28	−23	23	31	0.30	− 0.25	0.10	3.0	4	23	2	3	nw.	D. T. Wheaton.
New London	Kandiyohi	1,215	16	6.8	− 4.4	45	1	−30	19	38	1.04	+ 0.57	0.62	10.2	5	7	17	4	nw.	Harold Swenson.
New Richland	Waseca	1,180	16	12.0	− 3.9	40	1	−18	23	31	0.12	.....	0.08	0.9	3	13	12	3	nw.	N. O. Tyrholm.
New Ulm	Brown	791	30	10.0	− 5.7	43	1	−19	23	36	0.21	− 0.74	0.08	2.0	4	5	0	23	nw.	Andrew J. Eckstein.
Osakis	Douglas	1,343	3	6.2	.....	35	28	−30	18†	32	0.70	.....	0.53	7.0	4	12	9	7	nw.	J. B. Johnson.
Park Rapids	Hubbard	1,426	20	2.0	− 3.8	37	28	−39	18†	57	0.47	− 0.17	0.26	4.7	5	19	3	6	nw.	Dr. P. A. Walling.
Pine River Dam	Crow Wing	1,251	23	4.0	− 3.1	40	28	−43	18	45	0.50	− 0.20	0.40	12.0	2	21	5	2	nw.	Neil McKay.
Pokegama Falls	Itasca	1,280	23	3.5	− 2.2	38	28	−42	18	50	0.61	− 0.12	0.32	6.3	4	11	13	4	nw.	Arthur L. Mampel.
Red Lake	Beltrami	1,152	2	2.9	.....	36	28	−29	10†	45	0.44	.....	0.20	5.2	4	13	11	4	sw.	A. C. Goddard.
Red Wing	Goodhue	680	14	.....	.....	.....	.....	.....	.....	.....	0.14	− 1.01	0.06	1.9	5	14	2	12	nw.	Louis Bach.
Redwood Falls	Redwood	1,050	3	13.1	.....	47	1	−19	23	35	0.65	− 0.27	0.25	6.5	5	15	10	3	nw.	N. B. Anderson.
Reeds Landing	Wabasha	681	15	.....	.....	.....	.....	.....	.....	.....	0.09	− 0.58	0.04	2.0	3	11	5	12	nw.	John Deschneau.
Rochester	Olmsted	991	6	9.2	.....	41	1	−22	17	47	0.05	.....	0.05	0.8	1	12	3	13	sw.	S. R. Case.
Roseau	Roseau	1,040	3	−1.5	.....	41	28	−39	18	52	0.40	.....	0.15	2.8	3	23	5	0	nw.	A. Waag.
St. Charles	Winona	850	19	9.0	− 6.2	40	1	−20	19†	40	0.25	− 0.81	0.11	2.3	4	11	9	8	se.	S. W. Gleason.
St. Cloud	Sherburne	1,020	32	9.6	− 2.9	37	28	−26	19	32	0.46	− 0.17	0.28	4.5	2	13	11	4	nw.	Jos. H. Capser.
St. Paul	Ramsey	837	39	11.0	− 4.0	46	1	−20	23	28	0.42	− 0.42	0.36	4.5	5	9	14	5	nw.	U. S. Weather Bureau.
St. Peter	Nicollet	825	17	14.0	− 1.8	45	1	−21	19	37	T.	− 0.59	T.	T.	0	22	3	3	nw.	Chas. C. Cavanaugh.
Sandy Lake Dam	Aitkin	1,234	17	5.2	− 3.3	33	7	−40	18	55	1.46	+ 0.78	0.96	17.8	7	6	9	13	nw.	U. S. Engineer Corps.
State Sanatorium	Cass	.....	3	5.1	.....	37	28	−31	23	44	0.74	.....	0.52	6.2	4	19	3	6	nw.	Walter J. Marcley.
Stillwater	Washington	694	5	.....	.....	.....	.....	.....	.....	.....	0.47	.....	0.29	6.4	5	14	9	5	nw.	Oscar Ostrom.

TABLE 1.—*Climatological data for February, 1910. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Minnesota—Cont'd.																				
Taylors Falls	Chisago	739	3	9.4	.....	44	1	−31	18†	41	0.61	.....	0.41	6.5	2	19	5	4	n.	Mpls. Gen. Elec. Co.
Warroad	Roseau	1,069	1	−0.2	.....	47	28	−35	17	47	0.38	.....	0.10	3.8	5	21	2	5	w.	John H. Sawyer.
West Concord	Dodge	1,232	1	10.3	.....	38	1	−20	17†	35	T.	.....	T.	T.	0	8	16	4	nw.	H. H. Orcutt.
Willow River	Pine	1,046	12	7.2	.....	37	28	−39	18	41	0.51	− 0.30	0.21	6.0	7	16	5	7	n.	J. A. Brandt.
Windom	Cottonwood	1,336	4	13.4	.....	43	1	−20	18	38	0.15	.....	0.15	1.0	1	11	14	3	nw.	Taber C. Richmond.
Winnebago	Faribault	1,100	11	.....	.....	.....	.....	−16	10†	.....	0.15	− 0.76	0.08	2.0	3	13	9	6	nw.	H. H. Haight.
Winnibigoshish	Itasca	1,300	22	5.4	− 1.7	39	28	−32	18†	46	0.57	− 0.09	0.25	6.8	5	20	5	3	nw.	John Duncan.
Winona	Winona	700	15	15.3	− 0.6	43	1	−15	23	32	0.14	− 0.78	0.06	1.2	4	14	5	9	nw.	Perry C. Myers.
Worthington	Nobles	979	15	9.8	− 5.4	40	1	−18	16	34	T.	− 0.71	T.	T.	0	20	5	3	n.	W. I. Carpenter
Zumbrota	Goodhue	917	15	11.6	− 3.8	43	1	−21	19	36	T.	.....	T.	T.	0	16	8	4	nw.	W. C. Rowell.
South Dakota.																				
Milbank	Grant	1,148	18	10.0	− 2.5	41	28	−20	23	41	0.65	− 0.17	0.48	4.5	3	12	2	14	nw.	I. T. Patridge.
Wisconsin.																				
Antigo	Langlade	1,489	16	13.6	+ 0.9	36	28	−23	23	36	0.90	.....	0.30	9.0	5	18	0	10	w.	Elton C. Larzelere.
Barron	Barron	1,115	18	9.0	− 1.6	38	1	−36	18	42	0.55	− 0.50	0.45	5.0	2	22	2	4	sw.	Wm. A. Kent.
Beloit	Rock	750	23	19.7	+ 1.1	44	14	− 9	18	40	0.53	− 1.23	0.32	T.	3	16	4	8	nw.	Smith Observatory.
Brodhead	Green	812	12	17.4	+ 0.1	42	15	−16	25	43	0.85	− 0.73	0.45	5.5	3	16	9	3	nw.	Hecktore D. Kirkpatrick.
Burnett	Dodge	880	6	13.6	.....	38	28	−19	23	40	0.61	.....	0.32	6.6	6	11	5	12	nw.	Geo. W. Smith.
Delavan	Walworth	920	17	17.7	− 2.3	42	15	−13	23	37	0.41	− 0.92	0.20	5.5	6	9	9	10	sw.	Elwood S. Austin.
Dodgeville	Iowa	1,116	11	17.1	− 0.5	36	14	−15	23	39	1.13	+ 0.04	0.38	11.8	6	13	0	15	nw.	Geo. W. Butler
Downing	Dunn	983	8	10.3	.....	45	1	−34	19	42	0.40	.....	0.40	4.0	1	6a	4a	17a	w.	Eugene F. Stoddard.
Eau Claire	Eau Claire	800	19	13.7	+ 0.2	43	1	−22	19	40	0.32	− 0.95	0.24	3.2	3	15	8	5	nw.	Robert D. Whitford
Ellsworth	Pierce	1,068	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Henry G. Wood.
Glidden	Ashland	1,519	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	George Sell.
Grand Rapids	Wood	1,021	11	12.6	− 0.7	40	1	−23	23	41	0.95	+ 0.46	0.70	8.0	3	9	10	9	sw.	Willis B. Raymond.
Grantsburg	Burnett	1,095	19	7.9	− 3.2	42	1	−36	18†	44	1.10	+ 0.10	0.80	11.0	2	18	5	5	sw.	Theodore Olsen.
Hancock	Waushara	1,091	18	13.0	− 2.6	39	26	−19	23	39	0.90	− 0.23	0.40	8.0	4	14	5	9	w.	Frederick B. Hamilton.
Hatfield	Jackson	973	15	12.6	− 1.4	48	1	−26	18	44	0.45	− 0.13	0.30	4.1	4	9	7	12	sw.	Walter S. Woode.
Hayward	Sawyer	1,197	19	7.6a	− 2.4	38a	28	−38b	18†	51b	0.90	− 0.03	0.35	9.0	5	18a	3a	6a	nw.	William E. Swain
Hillsboro	Vernon	1,000	19	12.2	− 2.8	40	26	−27	24	48	1.10	− 0.22	0.60	11.0	3	18	7	3	w.	Emil V. Wernick.
Koepenick	Langlade	1,683	20	10.0	− 3.6	36	28†	−30	18†	50	1.00	− 0.15	0.50	10.0	4	.....	.....	.....	nw.	Edward S. Koepenick.
La Crosse	La Crosse	714	38	15.1	− 3.3	42	1	−14	23	30	0.51	− 0.55	0.24	4.0	7	8	10	10	s.	U. S. Weather Bureau.
Lake Mills	Jefferson	897	19	16.2	− 2.1	41	14†	−14	23	35	0.91	− 0.32	0.40	7.9	7	9	10	9	nw.	S. Newton Dexter Smith.
Lancaster	Grant	1,070	20	15.9a	+ 0.6	43a	14	−15a	23	33a	0.52	− 0.63	0.23	6.0	5	12	11	5	nw.	Edward Pollock.
Long Lake	Oneida	1,592	2	8.0	.....	38	28	−42	18	51	1.13	.....	0.59	12.6	11	12	6	10	w.	Louie Frank.
Madison	Dane	974	32	15.5	− 4.1	38	26	−14	23	35	0.74	− 0.73	0.28	6.4	6	6	13	9	nw.	U. S. Weather Bureau.
Mather	Juneau	962	6	10.4	.....	45	1	−23	18	54	1.02	.....	0.40	10.0	5	8	10	10	w.	Frank Evans.
Mauston	....do	882	14	14.8	+ 0.7	40	1	−18	23†	41	0.50	− 0.54	0.30	6.0	3	17	6	5	nw.	Eugene L. Hitchcock.
Meadow Valley	....do	974	19	12.8	− 0.8	40	1	−21	19	38	0.50	− 0.25	0.30	5.0	3	6	17	5	nw.	Charles H. Johnson.
Medford	Taylor	1,420	19	11.5	− 1.4	38	1	−27	19	39	0.20	− 0.83	0.20	2.0	1	17	5	6	w.	William Zeit.
Merrill	Lincoln	1,267	4	13.8	.....	45	1	−33	18	48	0.43	.....	0.20	7.2	6	20	4	4	n.	Frank M. McElroy.
Minocqua	Vilas	1,604	6	9.8	.....	46	1	−36	18	49	0.65	.....	0.55	6.5	2	13	3	12	w.	Benjamin W. Applebee.
Mondovi	Buffalo	738	2	13.2	.....	46	1	−26	19	41	0.15	.....	0.05	2.0	3	19	4	5	nw.	Dr. Charles Hebard.
Mount Horeb	Dane	1,226	6	14.9	.....	37	26†	−16	23†	32	1.01	.....	0.30	8.0	6	12	8	8	nw.	W. M. Lewis.
Muscoda	Grant	666	1	16.0	.....	43	1	−17	24	41	1.34	.....	0.46	7.3	7	11	10	6	.....	Henry Eckstein.
Neillsville	Clark	996	21	11.8	− 1.3	40	1	−30	18	45	0.50	− 0.67	0.40	2.0	2	12	1	15	nw.	William Heaslett.
New Richmond	St. Croix	990	5	11.1	.....	48	2	−28	19	40	0.73	.....	0.73	8.0	1	22	2	4	nw.	Franc A. R. Van Meter.
Osceola	Polk	806	19	6.7	− 3.8	42	1	−35	23†	57	0.63	− 0.15	0.30	14.0	4	16	6	6	w.	Charles W. Staples.
Portage	Columbia	809	14	14.6	− 2.2	40	26	−25	24	38	0.66	− 0.36	0.34	9.0	4	16	7	5	nw.	James Clear.
Prairie du Chien	Crawford	690	23	14.2	− 5.0	43	1	−12	23†	55	0.81	− 0.43	0.45	8.5	6	9	9	10	nw.	Jas. A. Gillis.
Prentice	Price	1,551	12	6.2	− 4.0	32	28†	−40	17	50	0.77	− 0.09	0.46	7.2	4	8	4	16	w.	Joseph G. Lash.
Rhinelander	Oneida	1,550	4	11.4	.....	40	1	−27	23	42	0.54	.....	0.26	9.3	7	17	3	8	nw.	John Lind.
Sauk City	Sauk	758	2	16.2	.....	42	1	−22	24	40	0.80	.....	0.50	9.5	3	13	7	8	w.	Kilien Derleth.
Shullsburg	Lafayette	1,019	4	15.3	.....	41	15	−14	23	35	0.56	.....	0.26	5.4	4	15	3	10	w.	Harrison B. Chamberlin.
Solon Springs	Douglas	1,083	4	6.8	.....	38	28	−41	18	49	0.79	.....	0.70	8.0	3	14	4	10	s.	John M. Sayles.
Spooner	Washburn	1,104	15	9.8	− 0.8	38	1†	−26	23	32	0.75	− 0.25	0.50	7.5	5	21	3	4	w.	Horace A. Bresee.
Stanley	Chippewa	1,082	6	11.2	.....	42	1	−29	19	46	0.19	.....	0.06	1.8	4	15	7	6	nw.	W. Humphrey Scott.
Stevens Point	Portage	1,113	17	12.4a	− 1.0	40a	26	−26a	19	42a	1.11	+ 0.45	0.50	10.0	5	10a	5a	12a	nw.	Garry E. Culver.
Valley Junction	Monroe	930	18	13.1	− 1.4	42	1†	−24	18	44	0.55	− 0.28	0.20	5.5	5	16	4	8	nw.	Frederick Muermann.
Viroqua	Vernon	1,412	19	15.2	− 1.0	39	2	−17	23	29	0.68	− 0.59	0.45	7.5	4	14	7	7	nw.	Henry E. Rogers.
Vudesare	Vilas	1,600	2	7.7	.....	39	28	−36	18	47	1.90	.....	0.74	21.0	8	15	6	7	w.	Louis L. Thomas.
Watertown	Jefferson	824	19	15.0	− 2.2	37	26	−16	24	42	0.89	− 0.59	0.50	7.2	7	8	12	8	nw.	Charles J. Salick.
Waukesha	Waukesha	864	14	17.8	+ 0.1	40	15	−14	23	30	0.75	− 0.28	0.30	6.0	6	6	19	3	nw.	Carroll College.
Wausau	Marathon	1,212	17	14.2	+ 0.1	37	14†	−23	19	47	0.50	− 0.73	0.20	6.0	4	14	10	4	sw.	George H. Halder.
Weyerhaeuser	Rusk	1,297	3	9.7	.....	43	1	−36	18	43	0.78	.....	0.70	8.7	3	12	11	5	nw.	Miss Etta Stiles.
Whitehall	Trempealeau	675	18	14.5	+ 1.4	42	1†	−23	18	40	0.23	− 0.76	0.08	2.5	4	17	4	7	nw.	Henry A. Towner.
Iowa.																				
Albia‖	Monroe	959	12	20.4	+ 0.1	52	1†	−10	23	41	0.48	− 0.84	0.23	2.0	3	13	8	7	nw.	J. I. Chenoweth.
Algona‖	Kossuth	1,213	36	14.6a	− 2.4	40a	1	−15a	23	28a	0.17	− 1.10	0.13	.....	3	.....	.....	.....	.....	Dr. F. T. Seeley.
Alta	Buena Vista	1,513	19	12.8	− 4.8	43	1	−15	23	41	0.19	− 0.66	0.13	2.0	2	11	14	3	nw.	David E. Hadden.
Amana	Iowa	721	34	19.4	− 0.7	44	15	− 9	23	31	0.25	− 1.01	0.12	1.3	4	11	11	6	nw.	C. Schadt.
Ames	Story	926	34	16.1	− 5.1	43	2	−10	23†	39	0.35	− 0.45	0.20	3.5	2	15	4	9	n.	Iowa State College.
Baxter‖	Jasper	998	10	19.4	+ 1.3	48	1†	−11	23	44	0.19	− 0.62	0.10	1.8	4	12	9	7	nw.	W. R. Vandike.
Belleplaine	Benton	828	20	19.9	0.0	45	14	−10	23	36	0.80	− 0.66	0.35	6.0	3	14	7	7	nw.	S. P. Van Dike.
Belmond	Wright	.....	.....	12.8	.....	47	1	−18	17	31	0.22	.....	0.18	1.7	2	5	17	6	nw.	Geo. P. Hardwick.
Bloomfield‖	Davis	.....	3	24.4c	.....	57d	14	−12b	23	39d	0.94	.....	0.54	4.0	3	.....	.....	.....	sw.	C. R. Davis.
Bonaparte‖	Van Buren	.....	19	23.1	+ 0.3	56	15	−12	23	33	0.74	− 0.49	0.37	3.0	3	.....	.....	.....	.....	B. R. Vale.
Boone	Boone	1,134	5	15.4	.....	48	1	−11	23	38	0.39	.....	0.18	2.0	5	19	2	7	.....	Carl Fritz Henning.
Britt‖	Hancock	1,236	13	12.0	− 4.5	38	1	−17	10†	34	0.10	− 0.93	0.05	1.0	3	13	10	5	nw.	L. M. Goodman.
Buckingham	Tama	.....	10	.....	.....	.....	.....	.....	.....	.....	0.27	− 0.73	0.13	.....	4	10	13	5	.....	W. A. Daniel.
Burlington	Des Moines	544	14	22.6	− 1.1	56	15	−10	23	43	2.09	+ 0.31	0.60	6.4	7	12	7	9	sw.	Max E. Poppe, jr.
Carroll	Carroll	1,265	20	18.3	− 0.6	52	28	−13	22	42	0.20	− 0.95	0.10	2.0	2	10	6	12	nw.	Mrs. Jos. J. Wolfe.
Cedar Rapids	Linn	753	28	17.3	− 2.8	48	15	− 9	23	42	0.38	− 1.00	0.17	1.2	3	17	4	7	w.	W. J. Greene.
Charles City	Floyd	1,015	19	11.0	− 4.1	37	1	−17	10	31	0.61	− 0.36	0.27	7.7	6	8	9	11	nw.	U. S. Weather Bureau.
Clear Lake‖	Cerro Gordo	1,241	12	14.0	− 0.6	40	1†	−19	10	47	0.10	− 0.75	0.10	1.0	1	17	1	10	nw.	Oscar Stevens
Clinton	Clinton	593	43	20.3	− 1.5	47	15	− 9	23	43	0.67	− 1.42	0.42	1.0	3	.....	.....	.....	.....	Luke Roberts.
Columbus Junction‖	Louisa	595	9	22.8	.....	53	15	− 8	23	34	0.67	− 0.51	0.36	3.5	3	16	6	6	w.	J. B. Johnston.
Davenport	Scott	580	39	21.0	− 2.8	52	15	− 8	23	32	0.59	− 0.97	0.30	3.5	6	12	8	8	nw.	U. S. Weather Bureau.
Decorah	Winneshiek	875	17	14.0	− 1.3	42	1	−14	18†	39	0.91	0.00	0.65	8.0	3	.....	.....	.....	.....	F. H. Baker.
Delaware	Delaware	1,083	19	15.5	− 0.8	41	15	−14	10†	36	0.41	− 0.40	0.14	6.0	4	17	6	5	nw.	William Ball.
Des Moines	Polk	861	32	20.2	− 3.9	49	14	− 9	23	33	0.30	− 0.88	0.11	1.8	3	7	8	13	nw.	U. S. Weather Bureau.
De Soto‖	Dallas	866	10	20.6	+ 0.2	51	14	−12	23	31	0.40	− 0.48	0.20	4.0	2	15	8	5	nw.	R. D. Minard.
Dubuque	Dubuque	639	37	18.0	− 3.6	45	15	−11	23	31	0.50	− 0.88	0.20	4.6	6	8	13	7	nw.	U. S. Weather Buerau.
Earlham	Madison	.....	8	20.2	.....	48	14	−10	23	35	0.40	.....	0.30	4.0	2	13	5	10	nw.	George Phillips.
Elkader	Clayton	727	31	13.3	− 4.7	42	1†	−15	18	43	0.52	− 0.57	0.30	10.0	5	17	8	3	n.	Chas. Reinecke.
Elma	Howard	.....	1	11.0b	.....	37a	1	−20	17†	35	0.55	.....	0.30	.....	3	14	10	4	nw.	H. A. Moore.
Estherville	Emmet	1,298	15	12.1	− 3.0	40	1	−15	23	35	0.24	− 0.44	0.07	1.5	5	18	0	10	n.	A. O. Peterson.

TABLE 1—*Climatological data for February, 1910. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Iowa—Cont'd.																				
Fairfield	Jefferson		26	22.9	− 1.2	55	14†	−10	24	34	0.66	− 0.93	0.39	2.8	4	18	5	5	nw.	R. Monroe McKenzie.
Fayette‖	Fayette	1,003	20	12.9	− 4.0	38	1†	−17	10	46	0.99	− 0.15	0.45	11.3	5	15	2	11	nw.	R. Z. Latimer.
Forest City‖	Winnebago	1,226	16	11.2	− 3.4	40	1	−17	10	34	0.30	− 0.63	0.20	3.0	2	15	5	8	nw.	J. A. Peters.
Fort Dodge	Webster	1,126	10	13.9	− 1.4	44	1†	−12	23	40	0.20	− 0.51	0.20	2.0	1	19	1	8	nw.	J. F. Monk.
Fort Madison	Lee	516	61								1.14	− 0.75	0.80	2.0	3	8	9	11	sw.	Miss L. A. McCready.
Gilman	Marshall	1,052	11								0.10	− 0.90	0.05	0.5	2					J. L. Wylie.
Grand Meadow	Clayton	1,180	19	13.2	− 3.5	40	1	−17	23	35	0.99	− 0.11	0.45	9.2	5	7	14	7	nw.	F. L. Williams.
Greene	Butler		12	13.9	− 2.1	38	1†	−16	10	33	0.47	− 0.47	0.25	6.0	4	8	9	11	w.	J. L. Cole.
Grinnell	Poweshiek	1,023	18	21.8	+ 0.5	47	14	− 4	23	30	0.15	− 0.77	0.10	1.5	2	10	13	5	n.	D. W. Brainard
Grundy Center‖	Grundy	976	19	15.6	− 2.1	40	1†	−12	23	31	0.30	− 0.55	0.15	3.0	3	9	9	10	nw.	J. B. Calderwood.
Guthrie Center‖	Guthrie	1,077	15	19.7	− 0.5	44	1	−13	23	28	0.42	− 0.38	0.20	7.5	3	17	4	7	nw.	D. G. Beardsley.
Hampton	Franklin	1,155	20	14.8	− 2.1	42	1	−13	17†	33	0.56	− 0.61	0.30	7.2	5	10	12	6	nw.	E. C. Grenelle.
Humboldt	Humboldt	1,095	22	15.2	− 2.5	41	1	−14	17†	36	0.30	− 0.36	0.30	3.0	1	18	5	5	nw.	Henry S. Wells.
Independence‖	Buchanan	921	46	14.6	− 5.0	39	15	−13	23	32	0.12	− 0.89	0.10	1.2	2	17	2	9	nw.	George Donohoe.
Indianola	Warren	969	19	21.6	− 0.7	49	14	−10	23	31	0.65	− 0.29	0.38	6.0	3	8	0	20	nw.	John L. Tilton.
Iowa City	Johnson	683	50	17.4	− 5.1	47	15	− 9	23	43	0.39	− 1.08	0.25	3.0	3	18	1	9	nw.	A. G. Smith.
Iowa Falls	Hardin	1,170	17	11.4	− 4.1	40	1	−15	10†	38	0.70	− 0.34	0.35	6.5	4	16	2	10	nw.	J. B. Parmelee.
Jefferson‖	Greene		11	18.6	.....	46	1	−10	23	37	0.40	− 0.45	0.20	4.0	2	14	11	3	n.	G. W. Jackson.
Keokuk	Lee	547	39	26.1	− 0.5	58	15	− 6	23	29	0.99	− 0.63	0.58	1.3	4	14	8	6	nw.	U. S. Weather Bureau.
Keosauqua	Van Buren	644	18	22.4	− 0.7	56	15	−10	23†	45	0.57	− 0.88	0.22	4.5	4	10	10	8	.....	J. H. Landes.
Knoxville‖	Marion	920	15	22.8	+ 0.9	53	14	− 9	23	32	0.65	− 0.23	0.30	6.5	3	12	9	7	nw.	Casey & Belville.
Lacona	Warren		11								0.70	− 0.78	0.20	7.0	5	8	14	6	.....	J. B. Alter.
Le Claire	Scott	576	10								0.78	− 0.47	0.35	3.8	6					Miss M. T. Disney.
Marshalltown	Marshall	947	18	16.8	− 2.6	47	7	−10	23	47	0.33	− 0.48	0.13	2.5	4	12	8	8	nw.	Ralph B. Reasoner.
Mason City‖	Cerro Gordo	1,132	13	11.9	− 4.3	39	1	−15	10†	32	0.23	− 0.61	0.15	2.3	3	12	11	5	nw.	J. S. Mills.
Mount Pleasant‖	Henry	729	29	23.2	0.0	54	15	− 9	23	32	1.17	+ 0.11	0.77	5.6	4	18	4	6	nw.	J. W. Edwards.
Muscatine	Muscatine		50								0.74	− 1.39	0.35	5.2	5					William Molis
New Hampton‖	Chickasaw	1,169	13	11.9	− 2.7	35	14	−17	10	34	0.75	− 0.15	0.30	7.5	3	16	4	8	nw.	A. F. Kemman.
Newton‖	Jasper	944	22	19.8	0.0	43	1	−10	23	31	0.30	− 0.79	0.21	5.0	2	15	10	3	s.	J. P. Beatty.
Northwood‖	Worth	1,222	14	11.2	− 4.3	36	1	−16	23	30	0.49	− 0.60	0.30	4.8	4	19	2	7	nw.	Chas. H. Dwelle.
Olin‖	Jones	760	12																	C. M. Miles.
Osage	Mitchell	1,184	23	13.0	− 1.9	38	1†	−17	23	34	0.35	− 0.79	0.15	5.0	3	11	12	5	nw.	A. D. Bundy.
Oskaloosa‖	Mahaska	843	34	22.2	+ 1.0	52	14	− 9	23	35	0.56	− 0.45	0.37	6.8	3	13	1	14	nw.	Joseph Boyd.
Ottumwa	Wapello	649	15	24.8	+ 1.8	56	14	− 7	23	36	0.26	− 1.10	0.13	4.2	3	10	8	10	w.	W. J. Mesmer.
Pella	Marion	877	8	21.3	.....	52	14	−10	24	32	0.49	.....	0.20	4.5	3	23	0	5	nw.	John H. Ver Steeg.
Perry‖	Dallas	975	9	18.2	.....	44	1	−10	23	28	0.90	.....	0.40	9.0	3	11	10	7	n.	J. A. Harvey.
Plover	Pocahontas	1,426	14	13.4	− 2.9	40	1	−16	17	31	0.10	− 0.56	0.05	1.0	2	14	12	2	nw.	J. S. Smith.
Pocahontas‖	do	1,248	6	13.9	.....	42	1	−15	23	30	0.17	.....	0.09	1.7	2	17	7	4	nw.	F. E. Hronek.
Ridgeway‖	Winneshiek	1,215	12	14.8	− 2.7	41	1	−17	23	34	0.61	− 1.56	0.44	4.1	5	17	9	2	s.	Arthur Betts.
Rockwell City‖	Calhoun		14	17.6	0.0	45	1†	−12	23	37	1.10	+ 0.25	0.50	11.0	3	22	5	1	.....	C. M. Randall.
Sac City	Sac	1,278	34	15.8	− 2.0	40	28	−13	23	26	0.30	− 0.72	0.20	3.0	2	18	1	9	nw.	E. N. Baily.
St. Charles‖	Madison	1,070	9	22.8	.....	55	14	−11	23	38	0.33	.....	0.33	3.0	1	16	8	4	nw.	R. D. Minard.
Sigourney‖	Keokuk	877	14	22.2	+ 0.5	49	14†	− 8	23	35	0.50	− 0.81	0.20	5.5	4	4	20	4	nw.	J. T. Parker.
Stockport‖	Van Buren		8	22.2	.....	55	15	−14	24	35	0.60	.....	0.24	3.0	4	13	5	10	n.	C. L. Beswick.
Storm Lake	Buena Vista	1,440	21	15.7[a]	+ 0.5	39[a]	1†	−15[a]	23	34[a]	0.11	− 0.58	0.06	0.5	2	17	10	1	s.	S. B. Fracker.
Stuart	Guthrie	1,216	11	18.6	− 2.5	44	28	−12	22	36	0.26	− 0.55	0.25	2.6	2	8	16	4	nw.	J. P. Fox.
Tipton‖	Cedar	807	11	20.8	− 1.0	45	15	− 7	23	29	0.39	− 0.88	0.15	2.5	3	15	9	4	nw.	F. K. Gregg.
Toledo‖	Tama	856	16	18.2	− 1.2	42	1†	−11	23	30	0.45	− 0.32	0.25	4.5	3	14	10	4	nw.	I. F. Giger.
Wapello‖	Louisa	588	12	22.9	+ 2.6	51	15	− 7	23	33	0.59	− 0.80	0.31	3.5	3	15	7	6	nw.	G. W. Schofield.
Washington	Washington	769	28	21.6	− 0.7	52	14	− 9	23	33	0.46	− 0.76	0.20	.....	4	11	15	2	nw.	Wm. A. Cook.
Waterloo	Black Hawk	862	27	14.0	− 4.1	40	1	−12	23	37	0.50	− 0.61	0.26	.....	5	13	10	5	nw.	M. L. Newton.
Waukee	Dallas	1,039	7	18.6	.....	46	14	−10	23	31	0.34	− 0.96	0.20	3.2	3	8	17	3	nw.	Samuel F. Foft.
Waverly‖	Bremer	948	14	14.3	− 3.2	40	1	−12	10†	32	0.78	− 0.36	0.40	7.8	4	9	11	8	nw.	H. S. Hoover.
Webster City‖	Hamilton		5	16.6	.....	40	1	−12	17†	36	0.50	.....	0.20	5.0	3	12	6	10	nw.	C. D. Carpenter.
West Bend‖	Palo Alto	1,197	17	13.8	− 2.6	43	1	−15	17	35	0.10	− 0.85	0.05	1.0	2	12	10	6	nw.	Joseph Dorweiler.
Whitten‖	Hardin	1,036	13	15.8	− 0.5	40	1	−14	23	37	0.60	− 0.16	0.20	6.0	4	14	7	7	nw.	F. P. Butler.
Winterset‖	Madison	1,129	19	21.5	− 0.2	47	28	−10	23	28	0.40	− 0.47	0.20	4.0	2	12	8	8	nw.	Robert S. Cooper.
Zearing	Story		6	16.8	.....	40	1	−11	22	34	0.90	.....	0.35	9.0	3	2	23	3	nw.	Orley Reese.
Missouri.																				
Gorin	Scotland	700	24								0.69	− 0.57	0.38	2.5	3	11	4	13	nw.	J. W. Pulliam.
Hannibal	Marion	534	18	26.8	− 2.3	62	15	− 4	23	43	0.65	− 0.95	0.40	1.7	3	12	9	7	n.	U. S. Weather Bureau.
Louisiana	Pike	500	32	27.8	0.0	64	15	−14	18	33	1.92	− 0.57	0.70	6.4	7	18	2	8	n.	J. T. Farrell.
Mexico	Audrain	797	32	25.7	− 3.0	64	15	−10	18	46	0.93	− 1.57	0.25	5.0	10	13	3	12	s.	J. F. Llewellyn.
Steffenville	Lewis	576	17	28.1	+ 1.9	59	14	− 4	23	32	1.05	− 1.00	0.50	0.7	3	11	10	7	ne.	Lewis Spriggs.
Sublett	Adair	1,000	30	25.4	+ 1.3	57	14†	− 7	23	32	0.20	− 1.81	0.10	2.0	2	13	6	9	nw.	Frank Hall.
Warrenton	Warren	865	20	26.4	− 3.1	65	15	− 3	18†	39	2.42	− 0.13	0.69	16.0	10	7	8	13	s.	Dr. J. H. Frick.
Indiana.																				
Collegeville	Jasper		11	26.3	+ 2.0	56	15	−12	18	42	2.45	− 0.04	1.05	3.3	8	2	9	17	sw.	Prof. L. C. Klosterman.
Knox‖	Starke	716	5	25.7	.....	51	15†	− 4	23	31	1.61	.....	1.01	4.6	10	7	10	11	w.	W. R. R. Tatman.
Laporte	Laporte	810	14	22.2[d]	− 0.4	47[d]	15	− 7[d]	18	37[d]	.....	.....	.....	.....	.....	5[e]	1[e]	19[e]	w.	J. E. Hallinen.
Plymouth	Marshall	790	7	24.8	.....	47	15	− 6	23	31	1.64	.....	1.03	5.3	10	9	8	11	s.	J. W. Siders.
Illinois.																				
Aledo	Mercer	738	10	22.1	− 0.5	53	15	−12	23	32	0.98	− 0.48	0.53	5.0	4	10	10	8	nw.	Wm. B. Frew.
Alexander	Morgan	670	17	28.0	+ 0.4	63	15	−12	18	32	0.84	− 1.12	0.55	3.5	8	9	9	10	nw.	George H. Hall.
Antioch	Lake	861	9	20.0	.....	50	15	−10	23	36	0.65	.....	0.30	4.5	4	8	8	12	w.	J. C. James, jr.
Astoria	Fulton	650	11	25.6	+ 0.9	61	15	− 7	23	33	1.16	− 1.41	0.50	1.0	4	8	14	6	nw.	Ed. V. Bohl.
Aurora	Kane	687	31	21.5	− 1.1	45	15	−11	23	33	0.82	− 1.45	0.59	2.0	4	9	7	12	sw.	W. Holden.
Bement	Piatt	700	3	27.8	.....	61	15	−12	18	41	1.55	.....	0.85	7.0	6	13	7	8	s.	Rev. C. S. Adams.
Benton	Franklin	508	8	34.0	.....	62	8†	− 2	18	39	3.12	.....	1.30	9.2	9	11	12	5	nw.	F. H. Stamper.
Bloomington	McLean	840	19	26.0	+ 0.3	60	15	− 7	23	37	1.03	− 1.19	0.77	0.7	6	10	7	11	s.	Prof. H. N. Pearce
Cairo	Alexander	359	33	34.4	− 3.2	61	15	5	18	29	3.29	− 0.04	1.58	3.9	12	9	6	13	n.	U. S. Weather Bureau.
Carbondale	Jackson	412	...	33.2	.....	62	15	−11	18	39	3.47	.....	1.51	14.3	8	10	6	12	n.	State Normal University.
Carlinville	Macoupin	663	20	28.4	− 0.8	63	15	−18	18	39	2.20	− 0.52	0.55	12.5	8	19	3	6	se.	R. O. Purviance.
Chester	Randolph	380	6																	F. A. Gollon, jr.
Clinton	Dewitt	727	...	27.8[a]	.....	60[a]	15	− 8	18	29[a]	1.24	.....	0.48	3.5	6	8	14	6	s.	J. F. Ziegler.
Coatsburg	Adams	763	18	27.0	+ 0.4	61	15	− 5	23	29	0.25	− 1.73	0.20	0.5	2	15	4	9	n.	Dr. J. R. Lambert.
Cobden	Union	656	27	33.8	− 1.9	63	15	− 4	18	41	.....	.....	.....	.....	.....	10	6	12	s.	John Buck.
Dakota	Stephenson	929	5	17.2	.....	40	15	−15	23	36	0.55	.....	0.26	5.0	6	12	11	5	w.	Rev. G. W. Kerstetter.
Decatur	Macon	685	19	24.2	− 2.0	61	15	−13	18	43	1.72	− 0.47	0.75	9.5	6	12	7	9	s.	Prof. J. H. Coonradt.
Dixon	Lee	725	20	19.5	− 1.5	46	15	−11	24	44	0.65	− 0.94	0.32	2.5	3					H. V. Bardwell.
Du Quoin	Perry	459	22	32.2	+ 1.0	67	15	−10	18†	35	4.16	+ 1.29	1.50	16.8	8	14	8	6	sw.	G. H. Knetsger.
Dwight	Livingston	600	17	25.2	− 0.3	59	15	−10	23	31	1.05	− 1.09	0.65	2.4	9	8	9	11	n.	Ed. O. Welch.
Galva	Henry	842	18	19.8	− 1.6	54	15	−13	23	41	1.26	− 0.35	0.72	6.5	5	16	2	10	nw.	Prof. F. U. White.
Greenville	Bond	635	32	28.4	− 2.1	63	15	− 7	18	30	2.65	− 0.54	1.10	20.5	8	9	4	15	se.	M. S. Oudyn.
Griggsville	Pike	650	25	29.0	+ 0.6	68	15	− 3	23	35	0.76	− 1.53	0.40	2.0	3	16	7	5	ne.	Geo. F. Kneeland.
Halfway	Williamson	569	14	32.2	+ 0.9	59	15	− 5	18	35	2.39	− 0.39	1.20	9.0	7	14	1	13	n.	E. L. Hearn.
Havana	Mason	475	18	28.4	+ 0.7	60	15	− 4	23	30	1.15	− 0.89	0.58	0.8	5	7	17	4	s.	F. & C. Borgelt.

TABLE 1.—*Climatological data for February, 1910. District No. 5*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Illinois—Cont'd.																				
Henry	Marshall	500	22	24.3	+ 0.1	59	15	−12	23	37	1.11	− 0.61	0.63	4.0	8	14	7	7	sw.	Dr. F. A. Powell.
Hillsboro	Montgomery	675	16	29.4	+ 0.3	62	15	−12	18	35	2.76	+ 0.33	0.85	22.0	8	12	3	12	nw.	Ira L. Woodward.
Joliet	Will	541	19	23.4	+ 0.3	53	15	− 8	23	41	1.21	− 0.69	0.74	2.4	6	15	4	9	nw.	F. M. Muhlig.
Kishwaukee	Winnebago	730	22	18.1	− 2.9	44	15	−14	23	36	0.52	− 1.55	0.28	7.0	4	15	6	7	s.	Geo. Stevens.
La Grange	Cook	657	18	22.8	+ 0.4	48	15	− 9	23	31	0.83	− 1.10	0.58	2.1	6	9	12	7	sw.	Prof. F. E. Sanford.
La Harpe	Hancock	698	31	24.6	− 2.2	59	15	− 8	23	30	0.60	− 1.33	0.25	1.5	3	16	7	5	nw.	Jno. S. Campbell.
Lanark	Carroll	883	21	17.2	− 3.5	47	15	−16	24	40	0.40	− 0.89	0.22	3.1	5	18	5	5	nw.	M. N. Werts.
La Salle	La Salle	536	33	22.0	− 3.0	57	15	−11	23	34	1.17	− 1.27	0.67	3.6	5	10	8	10	w.	U. S. Weather Bureau.
Lincoln	Logan	482	22	26.8	− 0.4	55	15	− 4	18†	29	1.08	− 1.01	0.68	1.8	4	14	7	7	nw.	Prof. C. S. Oglevee.
Martinton	Iroquois	633	23	24.8	+ 0.4	55	15	− 8	23	36	1.07	− 1.17	0.68	2.7	7	10	8	10	nw.	Jos. H. Peltier.
Mascoutah	St. Clair	425	20	31.4	+ 0.4	65	15	−16	18	43	3.68	+ 0.47	1.01	19.3	8	13	8	7	nw.	Geo. Henrich.
Minonk	Woodford	745	17	25.4	+ 1.3	60	15	−10	23	31	1.08	− 0.91	0.75	1.5	4	16	8	4	nw.	O. M. Davison.
Monmouth	Warren	784	18	23.8	+ 0.9	56	14	−10	23	34	1.51	− 0.08	0.80	6.0	5	12	9	7	nw.	Hugh R. Moffet.
Morrison	Whiteside	685	16	20.2	− 0.4	46	15	−12	23	35	0.76	− 0.96	0.43	4.7	5	16	5	7	w.	S. A. Maxwell.
Morrisonville	Christian	638	11	27.4	+ 0.1	61	15	−20	18	38	1.42	− 0.52	0.77	8.7	9	14	8	6	s.	J. D. Lowis.
Mount Vernon	Jefferson	511	16	28.2	− 3.2	62	15	−15	18	37	5.71	+ 2.68	3.00	19.0	8	12	4	12	n.	Theo. P. Stelle.
Oregon	Ogle	702	1	19.0	.....	46	15	−15	23	33	0.80	.....	0.30	4.0	3	9	2	17	s.	Samuel Ray.
Ottawa	La Salle	500	24	24.2	− 0.5	55	15	−11	23	35	0.98	− 1.10	0.50	2.0	6	6	3	19	nw.	Miss M. M. Harris.
Pana	Christian	692	24	27.2	− 2.3	60	15	− 9	18	33	2.33	− 0.64	0.75	10.0	6	19	1	8	nw.	C. W. Sibley.
Peoria	Peoria	609	33	23.8	− 2.1	60	15	− 9	23	38	1.10	− 1.59	0.66	2.1	5	11	9	8	s.	U. S. Weather Bureau.
Pontiac	Livingston	546	8	26.6	.....	60	15	− 8	23	28	0.97	.....	0.40	1.0	6	10	7	11	w.	Geo. Butterworth.
Riley	McHenry	956	51	18.4	− 2.6	40	15	−15	23	34	0.55	− 1.15	0.30	4.4	4	9	9	10	nw.	John West James.
Rockford	Winnebago	763	18	17.4	− 5.8	45	15	−12	23	41	0.80	− 1.41	0.23	4.1	6	14	3	11	.....	Hosmer C. Porter.
Rushville	Schuyler	670	19	26.8	+ 0.7	61	15	− 5	23	28	0.71	− 1.21	0.38	1.0	4	4	4	20	n.	H. F. Dyson.
St. Charles	Kane	700	15	21.0	− 0.7	45	15	−11	23	35	0.90	− 1.46	0.55	4.5	6	9	15	4	nw.	Dr. Wm. H. Bishop.
St. Peter	Fayette	500	8	29.0	.....	63	15	−19	18	43	3.65	.....	1.20	18.0	6	13	5	10	nw.	M. L. Lansford.
Springfield	Sangamon	644	33	26.2	− 2.9	63	15	− 5	18	37	0.94	− 1.83	0.51	5.4	8	10	8	10	s.	U. S. Weather Bureau.
Streator	La Salle	626	17	22.6	− 0.6	58	15	−10	23	39	1.03	− 0.67	0.33	1.5	6	16	3	9	nw.	Edw. F. Sweetser.
Sullivan	Moultrie	530	10	27.2	+ 0.5	63	15	−12	18	32	2.03	− 0.25	1.04	8.0	7	8	10	10	nw.	C. A. Corbin.
Sycamore	De Kalb	855	30	18.4	− 2.7	50	15	−12	23	40	0.77	− 1.17	0.55	5.0	3	10	7	11	nw.	Miss E. J. Davis.
Tilden	Randolph	500	24	30.8	− 2.0	63	15	−12	18	43	3.27	+ 0.57	0.78	19.5	10	11	4	13	nw.	Jas. A. Caldwell.
Tiskilwa	Bureau	798	16	21.6	− 0.2	51	14†	−15	23	30	1.17	− 0.84	0.47	6.0	6	14	5	9	s.	F. L. Smucker.
Walnut	do	717	19	22.2	− 0.5	49	15	−11	23	30	1.07	− 0.78	0.55	5.9	5	15	7	6	nw.	O. C. Nussle.
White Hall	Greene	573	2	27.7	.....	65	15	−14	18	38	1.70	.....	0.67	5.4	10	17	4	7	w.	Dr. R. A. Pritchett.
Windsor	Shelby	681	11	27.6	− 0.5	60	15	−24	18	42	2.84	+ 0.52	1.18	14.7	8	9	8	11	s.	Herbert Rose.
Winnebago	Winnebago	900	23	18.4	− 1.9	45	15	−13	23	35	0.69	− 1.08	0.40	6.0	4	18	4	6	nw.	Frank Osborn
Yorkville	Kendall	584	23	20.3	− 1.5	48	15	−14	23	33	0.46	− 1.52	0.20	1.5	6	13	4	11	w.	Herman A. Grimwood.
Zion	Carroll	938	16	17.4	− 2.6	46	15	−13	23	39	0.80	− 0.57	0.30	7.0	4	17	5	6	w.	Robt. F. Gillogly.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 5, Upper Mississippi Valley.*

Stations.	River basins.	Day of month																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
North Dakota.																															
Amenia	Red								.01	.03		T.				.40					T.		T.			T.						0.40
Bottineau	Mouse	T.														T.							T.			.04	.05					0.13
Cando	Sheyenne										.10				.10									.26								0.36
Crosby	Mouse	.22	T.					T.		T.	.07	T.			T.	.10				T.	T.	T.			.25		T.	T.	T.			0.64
Devils Lake	Sheyenne	.02							.06	.01	.01					.10	T.			T.		.04			.03	T.	T.					0.27
Donnybrook	Mouse	.10							T.	T.	T.				T.	.10					T.				.05	.05						0.30
Dunseith	...do																					T.										
Edmore	Sheyenne	T.							T.		.05				.10	T.					.20	T.	.20	T.	.20			.20				0.45
Forman	...do								T.						.10	.50					.10	T.	.20	T.			T.					0.90
Grafton	Red																															0.00
Granville	Mouse										.08						.04									.06						0.18
Hannah	Pembina								T.		.10											T.				.20						0.30
Hansboro	Red	.13				.01		T.	.03		.05					.10						.02	T.		T.	.03	.02					0.21
Hillsboro	...do	T.							.25	T.	.05					.20						.10		.05	.05	.05	.01					0.27
Lakota	Sheyenne	.01					T.		T.	T.	.04			.06									.10		.20	.10	.20					0.90
Langdon	Pembina								T.	T.	T.					.20									T.	T.		T.				0.11
Larimore	Red									T.						.50	.30								T.	T.			T.			0.60
Lisbon	Sheyenne								T.																*	.20						0.80
McKinney	Mouse								T.		.05					.20			T.			.10			.10	T.						0.20
Manfred	Sheyenne								.10							.40						.02			.20							0.45
Mayville	Red	.03	T.							T.	T.	T.				.35	.05					T.	T.			.10	T.					0.72
Minot	Mouse	.04							.02							.03							.03		.06	.15						0.53
Minto	Red										.02					.40						T.				.20						0.33
Oriska	Sheyenne	T.							T.	T.	.04											T.			.04	.08	T.					0.44
Park River	Red								.10																	.20						0.13
Pembina	...do																															0.30
Portal	Mouse															.50				.10						T.	T.					0.65
Power	Sheyenne					.05																										0.00
Pratt	Mouse								.01		.02					.10																0.13
University	Red											T.				1.50																1.50
Wahpeton	...do																									T.		T.				T.
Walhalla	Pembina							T.	T.		T.											T.			.02	T.			T.			0.02
Westhope	Mouse	T.									T.														T.							T.
Willow City	...do																															
Minnesota.																																
Albert Lea	Mississippi									T.		T.				T.					.07		T.			T.		T.				0.07
Alexandria	...do		.03	T.						T.	.04					.60	.10				.08		.05									0.90
Angus	Red									T.	T.	T.				.02							T.			T.	.10					0.12
Bagley	...do															.02										.11	.08					0.48
Baudette	Rainy	.15							.02	T.		.01	T.			.29							T.			.10	.07					0.35
Beardsley	Minnesota									T.					T.	T.					T.	T.	T.									0.65
Beaulieu	Red								T.		T.	T.				.65				T.			.15		T.							0.15
Bird Island	Minnesota									T.						T.					.12		.05		.02		T.					0.45
Caledonia	Mississippi															.26					.10				T.							0.10
Campbell	Red		.10							.20		.10				T.	.40						T.		T.	.05						1.45
Cass Lake	Mississippi											.15				.60	.25				.20					.10	T.					0.70
Collegeville	...do									T.						T.					.16		.01									0.34
Crookston	Red					T.		T.	T.	T.		.10				.17							.05									0.45
Detroit	...do															.05	.05						.05			.10	.10					0.13
Fairmont (near)	Minnesota			T.						T.						.05			T.		T.	T.	.08			T.	T.					0.06
Faribault	Mississippi			T.						T.		T.				.02					.01		.02		.01							0.15
Farmington	...do			T.					T.	T.	.05					.10							T.									0.85
Fergus Falls	Red			.01					.02	.01	.03	.02				.64	.01			.02	.03	.01	.02				.03					1.40
Fort Ripley	Mississippi			T.	T.							.05				.30	1.00				.05		T.			T.					0.22
Fosston	Red								T.		.07					.07						T.	T.				.08					0.27
Glencoe	Mississippi									T.		T.				.20					.05		.02		T.	T.	T.					0.27
Grand Meadow	...do									T.						T.					.05		.12		T.							0.17
Hallock	Red		.10								.10												.02			.10	.05	T.				0.37
Halstad	...do											.06				.15											T.					0.23
Hinckley	St. Croix													.10		.50							T.			.20	.20					0.60
International Falls	Rainy	.10							T.	T.		T.				.10							T.									0.60
Kelliher	Red										.03															.11						0.14
Lake Crystal	Minnesota															T.										T.						0.14
Leech Lake Dam	Mississippi											.08				.30					T.		.07			.11						0.56
Little Falls	...do	T.										T.				.70					.10		.05									0.85
Little Fork	Rainy									T.	T.	.01				1.02					.01		T.				T.					1.04
Long Prairie	Mississippi		T.							T.						.08				.07			.09				T.					0.24
Lynd (2)	Minnesota															T.	.06				T.		T.		T.							0.06
Mankato	...do									T.	.05				.10	.40				.01	.10		.04		.02							0.74
Mapleplain	Mississippi		T.						T.	.05		.02				.20				.16												0.36
Milaca	...do	T.										T.			.10	.30				.20	.10	.05			.02		T.					1.12
Milan	Minnesota		T.						T.	.15	T.				.10	.30			T.	.01	.01		.02		T.			T.				0.51
Minneapolis	Mississippi		T.							T.	T.	.01			.15	.31				.01	.09		.05		.02							0.37
Montevideo	Minnesota									.03						.12	.06				.09						T.					0.52
Moorhead	Red								.02		.06	.02				.34					.02		.04		.02							0.93
Mora	St. Croix									T.	.03	.03				.80					.10					T.						0.30
Morris	Minnesota									T.	.05				.10						.10				.05							1.04
New London	Mississippi									.05					.11	.62					.02	.24				T.	T.					0.12
New Richland	Minnesota		T.							T.		T.				T.						.02	.08		.02							0.21
New Ulm	...do									.03	T.	T.				T.	.05			T.	T.	T.	.05	T.	.08	T.						0.70
Osakis	Mississippi		T.							T.		.02				.53				T.	.10		.05			T.	T.	T.				0.70
Park Rapids	...do											.10				.10	.16				.04		.04			.03						0.47
Pine River Dam	...do															.40					T.					.10						0.50
Pokegama Falls	...do								T.	T.		.08				.32	T.				.03				T.		.18	T.				0.61
Red Lake	Red											.08				.20										.06	.10					0.44
Red Wing	Mississippi										T.	.02	T.			.04	.02				.02	.02	T.	.02	T.	T.						0.14
Redwood Falls	Minnesota									.05						.20					.05		.10		.25							0.65
Reeds Landing	Mississippi														T.		.01					.04		.04								0.09
Rochester	...do											T.									T.	.05	T.		T.		T.					0.05
Roseau	Red	.13							T.			.15										T.				.12						0.40
St. Charles	Mississippi											T.					T.				.03	.11	T.	.03	T.		.06					0.25
St. Cloud	...do		T.													.28					.18											0.46
St. Paul	...do		T.							T.	.02				.10	.26				T.	.02	T.	.02		T.							0.42
St. Peter	Minnesota															T.	T.				T.		T.									T.
Sandy Lake Dam	Mississippi		.06								.03	.15				.90							.03			.11						1.46
State Sanatorium	...do											.06				.52					T.		.08			.08	T.					0.74
Stillwater	St. Croix											.05				.21	.08				.07			.06								0.47
Taylors Falls	...do											T.				.41					.20											0.61
Warroad	Rainy	.10							.05														.05		.08	.10						0.38
West Concord	Mississippi															T.							T.									T.
Willow River	St. Croix		.02							.01		.05				T.					.01	.05				.16						0.51
Windom	Des Moines									T.						T.	.21			T.			.15				T.					0.15
Winnebago	Minnesota										.03					T.	T.				.04		.08		T.							0.11
Winnibigoshish	Mississippi											.08				.25					.02		.03			.19	T.					0.57

TABLE 2.—*Daily precipitation for February, 1910. District No. 5*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Minnesota—Cont'd.																																	
Winona	Mississippi		T.	T.								T.				.02	T.				.06		.02		T.		.04					0.14
Worthington‖	Des Moines																T.											T.				T.
Zumbrota	Mississippi		T.							T.						T.					T.				T.							T.
South Dakota.																																	
Milbank	Minnesota		T.							T.						.48	.11								.06							0.65
Wisconsin.																																	
Antigo	Wisconsin									T.	T.	.10				.30					.20		.05				.25					0.90
Barron	Chippewa											T.		T.		.45					.10	T.	T.									0.55
Beloit	Rock									.01										T.	.32		.20									0.53
Brodhead	...do									T.		T.				T.			T.		.45		.10				.30					0.85
Burnett	...do		T.	T.								T.	T.			.03				.05	.32		.05				*	.16				0.61
Delavan	...do		T.									T.	T.	.01		.01				.01	.13		.05				.20					0.41
Dodgeville	...do															.05				.06	.38		.28			.32	.04					1.13
Downing	Chippewa															.40							T.									0.40
Eau Claire	...do		T.						T.			T.			T.	.24					.06		.02		T.							0.32
Ellsworth	Mississippi																															
Glidden	Chippewa																															
Grand Rapids‖	Wisconsin		T.								T.	T.					.10			T.		.15		T.			.70					0.95
Grantsburg	St. Croix															.80					.30											1.10
Hancock	Wisconsin		T.									T.				.10					.20	T.	.20				.40					0.90
Hatfield	Black														.01	.02					.12						.30					0.45
Hayward	St. Croix		T.									.10				.35	.25				.10					.10						0.90
Hillsboro	Wisconsin		T.									T.				T.					.40		.10		T.		.60					1.10
Koepenick	...do		T.			T.				.10		.10				.50										T.	.30					1.00
LaCrosse	Mississippi		.01						T.	T.		T.		T.	T.	.08			T.		.13		.04		.01	.12	.12					0.51
Lake Mills	Rock			T.					T.			T.	.04			.08		.02	T.	.40	.05	.12		T.		.20					0.91
Lancaster	Mississippi																		.02		.25		.01				.03	.23				0.52
Long Lake	Wisconsin		.03						T.	.10	.04	.05	.05			.50	.01				.13		.03				.08	.04				1.13
Madison	Rock		T.			T.			T.	T.	T.	T.	T.	T.		.09	T.		.05	.06	.26		T.		T.	.09	.19			..		0.74
Mather‖	Wisconsin											T.			T.	.02	.30					.20		.10			.40					1.02
Mauston	...do																.10				.10						.30					0.50
Meadow Valley	...do	T.										T.				.05					.15		T.				.30					0.50
Medford	Black											T.			*	.20					T.											0.20
Merrill	Wisconsin									.01	T.	.01				.15					.04		T.			.02	.20					0.43
Minocqua	...do		T.							T.		T.	T.			.55					.10		T.			T.						0.65
Mondovi	Mississippi		T.									.05				.05					.05		T.									0.15
Mount Horeb	Rock			T.												.08				.10	.30		.10			.25	.18					1.01
Muscoda‖	Wisconsin			T.												.20	.10					.46	.14	.10			.22	.12				1.34
Neillsville	Black											T.			T.	.10					T.				*	*	.40					0.50
New Richmond	St. Croix															.73										T.						0.73
Osceola	...do										T.				T.	.30					.15		.15					.03				0.63
Portage	Wisconsin															.10				T.	.34		.05			.17	T.					0.66
Prairie du Chien‖	Mississippi										T.					T.	.02			.04		.22	T.	.04			.45	.04					0.81
Prentice	Chippewa									.03		T.				.46					.18		T.			.10							0.77
Rhinelander	Wisconsin		.02							.09		.04				.26	.02				.08		.03			T.							0.54
Sauk City	...do															T.				.05	.50					*	.25						0.80
Shullsburg	Mississippi									T.						T.			T.	.05	.15		.10			*	.26						0.56
Solon Springs	St. Croix		T.						T.	T.		.07			T.	.70					T.		.02			T.							0.79
Spooner	...do							T.			T.	.05				.50					.10		.05			.05							0.75
Stanley	Chippewa								T.			.05			.05	.06					.03		T.										0.19
Stevens Point	Wisconsin										*	.08				.25					.21		.07				.50						1.11
Valley Junction	...do		T.	T.					T.							.15	T.				.13		.05		.02		.20					0.55
Viroqua	Mississippi											T.		T.		.02	T.				.18	T.	.03		T.		.45					0.68
Vudesare	Wisconsin		.03			T.			T.	.20		T.	.20			.74	.40				.20		.03			.10						1.90
Watertown‖	Rock												T.	T.			.06	T.		.07	.05	.50		.05			.10	.06				0.89
Waukesha	Fox		.01									T.	T.			.04				.05	.25		.10				.30					0.75
Wausau	Wisconsin									T.	T.	.03				.20					.07		T.				.20					0.50
Weyerhaeuser	Chippewa								T.	T.	T.	.03				.70					.05	T.											0.78
Whitehall	Mississippi									T.		.08		*	.05						.05						.05						0.23
Iowa.																																	
Albia‖	Des Moines																				.20	.05						.23					0.48
Algona	...do																	T.			.13		.02				.02						0.17
Alta‖	Raccoon																T.		T.		.08	.05	.06				T.						0.19
Amana	Iowa								.01	T.		T.							T.		.09		.03				.12						0.25
Ames	Skunk																				.20		.15			T.	T.						0.35
Baxter	...do									T.		T.								.01	.05		.10				.03						0.19
Belle Plaine	Iowa								T.	T.									T.		.20		.25				.35						0.80
Belmond	...do								T.			T.			.18				T.				.04										0.22
Bloomfield	Mississippi																				.35		.05				.54						0.94
Bonaparte	Des Moines		.07																		.30		T.	T.			.37						0.74
Boone‖	...do																			.08		.10	.10	.08	T.	T.	.03						0.39
Britt	Iowa									T.						.02					.05		.03				T.						0.10
Buckingham	Cedar									T.						T.			.02		.13		.05				.07						0.27
Burlington‖	Mississippi			.40										T.				T.			.08	.47	.06	.03			.60	.45					2.09
Carroll‖	Raccoon																			.10	.10												0.20
Cedar Rapids‖	Cedar							T.		T.		T.				T.		T.	T.		.12	T.	.09				.17						0.38
Charles City	...do									.02		T.				.08				T.	.20		.04			.06	.21						0.61
Clear Lake	...do																				.10												0.10
Clinton	Mississippi									T.											.15		.10				.42						0.67
Columbus Junction	Iowa		T.							T.		T.									.26	T.	.05				.36						0.67
Davenport	Mississippi		.01							.01		T.									.24	.01	.02			T.	.30						0.59
Decorah	...do								T.	T.											.21		.05				.65						0.91
Delaware	...do										T.	T.							T.	.05	.12		.10				.14						0.41
Des Moines	Des Moines									T.		T.									.11	T.	.08	T.		.01	T.						0.20
De Soto	Raccoon																				.20		.20			T.							0.40
Dubuque	Mississippi									T.		T.		T.		T.			.04	.01	.16		.09			.02	.18						0.50
Earlham	Raccoon																				.10		.30	T.		T.	T.						0.40
Elkader	Mississippi									.02									.02		.30		.08			.10							0.52
Elma	Wapsipinicon									T.		T.				T.			T.		.15		.10				.30						0.55
Estherville‖	Des Moines																.02				.05		.05	.05			.07						0.24
Fairfield	Skunk		.03						T.												.21	T.	.03				.39						0.66
Fayette	Mississippi									T.						T.			T.	.05	.42		.07			*	.45						0.99
Forest City‖	Cedar									T.						T.	T.				.20	.10	T.										0.30
Fort Dodge‖	Des Moines																				T.		.20	T.									0.20
Fort Madison	Mississippi		.14									T.								T.		.20	T.				.80						1.14
Gilman	Iowa									T.										T.	.05				T.	.05		T.					0.10
Grand Meadow	Mississippi			T.						T.						.07				.02	.40		.05				.45						0.99
Greene	Cedar															.03			T.		.15		.04				.25						0.47
Grinnell	Iowa									T.											.05		.10			T.			T.				0.15
Grundy Center	Cedar															T.			T.		.15		.05			T.	.10						0.30
Guthrie Center	Raccoon															T.				.04	.18	T.	.20				T.						0.42
Hampton	Cedar									T.								T.	.02		.30	.04	.08			.12	T.						0.56
Humboldt	Des Moines															T.			T.		.30												0.30
Independence	Wapsipinicon																			.10							.02						0.12

TABLE 2.—*Daily precipitation for February, 1910. District No. 5*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Iowa—Cont'd.																															
Indianola	Des Moines											T.									.38	T.	.23	T.		T.	.04						0.65
Iowa City	Iowa								T.		T.											.25	T.	.02			T.	.12					0.39
Iowa Falls	do									T.							T.		T.	.05	T.	.35	.10	T.			.20	T.					0.70
Jefferson	Raccoon																		T.		.20		.20			T.	T.						0.40
Keokuk	Mississippi		.16					T.		T.	T.	T.									.24	T.	.01	T.		T.	.58						0.99
Keosauqua	Des Moines						T.					T.				T.					.20	.10	.05				T.	.22					0.57
Knoxville	do											T.									.30		.15				.20						0.65
Lacona	do																				.20	.20	.10	.10			.10						0.70
Le Claire	Mississippi			.01							.01											.25	T.	.07			.09	.35					0.78
Marshalltown	Iowa																			.08	T.	.13	T.	.09			.03						0.33
Mason City	Cedar									T.											.15		.05				.03						0.23
Mount Pleasant	Skunk		T.	T.						T.						T.					.33	.02	.05				.77						1.17
Muscatine	Mississippi				T.						T.		T.								T.	.28		.03	.04		.04	.35					0.74
New Hampton	Wapsipinicon									.20						T.					.25						.30						0.75
Newton	Skunk																				.09		.21										0.30
Northwood	Cedar		T.							.05		T.				.04					.30		.10				T.						0.49
Olin	Wapsipinicon																																
Osage	Cedar									T.						T.					.15		.15				.05						0.35
Oskaloosa	Des Moines																				.13		.06			T.	.37						0.56
Ottumwa	do		T.									T.									.13	T.	.03	T.			.10						0.26
Pella	do							T.	T.			T.									.18		.11				.20						0.49
Perry	Raccoon																		T.	.20	.30		.40			T.	T.						0.90
Plover	Des Moines																T.	T.		T.	.05		.05		T.		T.						0.10
Pocahontas	do																				.08		.09										0.17
Ridgeway	Mississippi									T.		T.				.01					.15		.01			.01	.43						0.61
Rockwell City	Raccoon																			.10	.50		.50										1.10
Sac City	do																			.10	.20												0.30
St. Charles	Des Moines									T.		T.				T.					.33						T.						0.33
Sigourney	Skunk								T.												.18		.07				.20		.05				0.50
Stockport	do		.11																		.24	.02					.23						0.60
Storm Lake	Raccoon																						.05	.06									0.11
Stuart	do																			.01		.25				T.							0.26
Tipton	Cedar																				.14		.10				.15						0.39
Toledo	Iowa																			.05	.15		.25				T.						0.45
Wapello	do		.04							T.											.24		T.				.31						0.59
Washington	Skunk																				.20	.02	.04				.20						0.46
Waterloo	Cedar									T.									T.	.09	.26		.03				.05		.07				0.50
Waukee	Raccoon											T.								T.	.09	T.	.20			.05	T.						0.34
Waverly	Cedar									T.						T.			T.	.03	.40		.05				.30						0.78
Webster City	Des Moines															T.				.10	.20		.20				T.						0.50
West Bend	Des Moines															T.					.05		.05				T.						0.10
Whitten	Iowa								T.	T.						T.				.20	.20		.10				.10						0.60
Winterset	Des Moines											T.				T.					.20	T.	.20	T.		T.							0.40
Zearing	Iowa																		.20	.35		.35											0.90
Missouri.																																	
Darksville	Chariton																																
Gorin	Mississippi		.13																		.18		T.				.38						0.69
Hannibal	do		T.	T.					T.	T.	T.	T.	T.			T.	.09				.16	T.	T.			T.	.40						0.65
Lousiana	do		.15	T.					.02	.10	T.	T.					T.	.70			.15		.02	T.			.42						1.56
Mexico	do			.10	T.				.03	.04			.02				.03	.25			T.	.05	.03				.15	.23					0.93
Steffenville	do		.50							T.	T.	T.					T.	T.				.05	T.				.50						1.05
Sublett	do		T.																		.10		T.				.10						0.20
Warrenton	do			.15					.01	.36			T.				.08	.63	.04			.02	.07				.38	.68					2.42
Indiana.																																	
Collegeville	Iroquois		.15	.30	T.								.01				.01	.38			.20		T.				1.05	.35					2.45
Knox	Kankakee		.01	.15			.03		T.	T.			.07				T.	.09			.03	.14	.07				.58	.42					1.61
Laporte	do																																
Plymouth	do		T.	.04		T.	.03		T.	.03		T.	.19				.04	.08			T.	.12	.08				.50	.53					1.64
Illinois.																																	
Aledo	Mississippi		.04									T.								T.	.36	T.	.05				.53						0.98
Alexander	Illinois		.09	.01					.01	.01	T.	T.	T.			T.	.15	T.			.02		T.				.43	.12					0.84
Antioch	do										.30					T.					.10	.20	.05										0.65
Astoria	Illinois		.06						T.	T.	T.	T.	T.			T.	.20				.40	T.	T.	T.			.50						1.16
Aurora	do		T.	T.								T.	.07								.09		.07				.59						0.82
Bement	Mississippi		T.							.10							.10	.40	.10								.55	.30					1.55
Benton	do		.05	.10					.02	.20							.10	1.30				.05					.05	1.25					3.12
Bloomington	Illinois		.09						T.	T.	T.		T.				.07				.07	.03	T.				.69	.08					1.03
Cairo	Mississippi		.06	.20						.22		T.	.01			.01	.74	.33			.06	.02		.06			.97	.61	T.				3.29
Carbondale	Mississippi		.04	.11						.25			T.				.45	1.02					.09	T.			.25	1.26					3.47
Carlinville	Illinois					.50			T.	.15			.02			T.	.55	.30				.03					.50	.15					2.20
Carlyle	Mississippi								.40									1.20									.97	2.00					4.57
Chester	do																																
Clinton	Illinois	T.	.17						T.	T.			T.				*	.31			.09	.07					.48	.12					1.24
Coatsburg	Mississippi		T.														T.				T.	.05					.20						0.25
Cobden	do																																
Dakota	Mississippi									T.			T.	T.		.02					.26	.01	.10				.13	.03					0.55
Decatur	Illinois		.20						T.	.12			T.				.40	.17			.08						.75						1.72
Dixon	Mississippi																					.25		.08				.32					0.65
Du Quoin	do			.31				.08		.50			T.	.20			.33	1.50									.84	.40					4.16
Dwight	Illinois		.04	.07					T.	T.	.01		.04				T.	.01			.21	T.	.02				.57	.08					1.05
Edwardsville	Mississippi		.14	.12					T.	.45							.85	.40			.03		.04				.86						2.89
Galva	Illinois		.16	T.						T.	T.	T.									.30	.01	.03				.72						1.26
Grafton	Mississippi			.32						.40			T.				.64	1.40									.62	.50					3.88
Greenville	do			.05	.10					.50							1.10	.30			.05	.05					.50						2.65
Griggsville	Illinois		T.	T.							T.	T.			.20			T.	T.		.16	T.	T.				.40						0.76
Halfway	Mississippi		.08	T.						.16			T.				.20	.50				T.	.08				.17	1.20					2.39
Havana	Illinois		.08														.12				.30	.07					.58						1.15
Henry	do		.05	.06						T.	.02	T.									.28	.04	.03				.60	.03					1.11
Hillsboro	Mississippi		.06	.08					T.	.32			.05				.72	.40			T.		T.				.85	.28					2.76
Joliet	Illinois		.24							T.	T.	.02	T.								.15	.02	.04				.74						1.21
Kishwaukee	Mississippi		.02							T.										T.	.12		.10				.28						0.52
La Grange	Illinois		.10										.03				T.				.07	.01	.04				.58						0.83
La Harpe	do		.15								T.						T.				.20		T.	T.			.25						0.60
Lanark	Mississippi		T.							T.											.17	.05	.03				.12	.03					0.40
La Salle	Illinois		.16						T.	T.		.02					T.				.30	T.	.02				.67						1.17
Lincoln	do		T.						T.	T.	T.		.02				.18				.20	T.	T.	T.			.68						1.08
Loami	do		.05	T.						.05	T.	T.	T.				.25	T.			T.	T.	T.				.40	.10					0.85
Martinton	do		.20							.02		.01	T.				.05				.08		.03				.68						1.07
Mascoutah	Mississippi		*	.33					.02	.42		T.				*	.66	.90	.14				.20				.54	.47					3.68
Minonk	Illinois		.11							.04		T.					T.				.18	T.	T.				.75						1.08
Monmouth	Mississippi		.20																		.39	.06	.06				.80						1.51
Morrison	do										.03									T.	.20	.02	.08				.43	T.					0.76
Morrisonville	Illinois		T.	.08					T.	.10			.02				.27	.12			.02		.04				.55	.22					1.42
Mt. Vernon	Mississippi			.05						.50							.22	3.00	.50				.10				1.25	.09					5.71

TABLE 2.—*Daily precipitation for February, 1910. District No. 5*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Illinois—Cont'd.																																	
Oregon	Mississippi											T.									.30		.20				.30						0.80
Ottawa	Illinois		.13	.08							.04		T.								.15	.08					.50						0.98
Pana	Mississippi		T.	.18					T.	.20			T.				.43	.52			T.	T.	T.				.75	.25					2.33
Peoria	Illinois		.12						T.	.01		T.	T.				.02				.29	T.	T.				.66						1.10
Pontiac	do		.15	.07					T.		T.		T.				T.	T.			.10	.10	T.				.40	.15					0.97
Riley	Mississippi		T.	T.						T.		T.				T.				.02	.30		.10				.13						0.55
Rockford‖	do			T.					T.	.06				T.		T.			.02		.22		.12			.15	.23						0.80
Rushville	Illinois		.08							T.			T.				.10				.15		T.					.38						0.71
St. Charles	do		.08	T.					T.	T.	T.	.01	T.			T.	T.				.07	.11	.08				.55	T.					0.90
St. Peter	Mississippi		T.	.20						.40			T.			T.	1.00	.20								1.20	.65						3.65
Springfield	Illinois		.04						.01	.03	T.	.01	T.			T.	.28	.03			.03	T.	T.	T.			.51	T.					0.94
Streator‖	Illinois		T.	.14					T.		.02		T.									.22		.04			.28	.33					1.03
Sullivan	Mississippi		T.	.12						.20		T.					.50	.10			.07						.80	.24					2.03
Sycamore‖	do			T.									T.									.55					.10	.12					0.77
Tilden	do		.14	.27					.05	.26			.02				.78	.50					.05	T.			.69	.51					3.27
Tiskilwa	Illinois		.10						T.	T.	.05	T.	T.								.40	.10	.05				.47	T.					1.17
Walnut	Mississippi		.06						T.			T.									.26	.05	.15				.53						1.07
Warsaw‖	do		.20																		.27						.50						0.97
White Hall	Illinois		.32	.01					T.	.12			T.				.36	.05			.10	.02	.05				.62	.05					1.70
Windsor	Mississippi			.20						.40			T.			T.	.60	.42			.02		.02				.70	.48					2.84
Winnebago	do		T.									T.									.40	T.	.05				.20	.04					0.69
Yorkville	Illinois		.01	.01							T.	T.									.09	T.	.05				.20	.10					0.46
Zion	Mississippi									T.		T.									.30		.20			.10		.20					0.80

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 5, Upper Mississippi Valley.*

Date.	North Dakota.										Minnesota.																	
	Bottineau.‡‡		Devils Lake.		Lisbon.‡‡		Minot.‡‡		Pembina.‡‡		Collegeville.		Crookston.‡‡		Grand Meadow.		Montevideo.‡‡		Moorhead.		New Ulm.‡‡		PineRiverDam.		St. Paul.		Winnibigoshish.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	25	15	30	13	29	7	29	23	24	18	39	23	34	16	38	7	45	22	34	21	43	26	30	16	46	20	34	20
2	15	3	20	6	28	4	23	4	18	8	31	25	18	14	37	16	27	25	26	6	34	5	32	17	34	21	32	15
3	22	− 5	28	4	30	1	33	7	25	5	29	7	28	0	29	7	34	3	23	− 3	31	− 5	29	− 7	25	7	34	3
4	29	− 2	29	7	34	4	33	11	22	14	28	15	18	10	30	10	34	4	24	13	27	4	24	11	30	13	24	9
5	16	1	21	2	22	6	38	10	18	8	23	5	12	1	23	8	20	7	13	3	19	9	15	− 8	20	7	13	− 7
6	27	2	34	6	21	4	40	11	28	5	26	6	24	1	19	− 2	34	5	28	− 2	24	0	26	− 6	22	5	29	1
7	26	− 2	28	6	23	1	42	10	32	6	34	17	26	7	32	9	38	10	26	10	36	7	31	9	36	14	34	10
8	20	− 1	25	1	25	3	29	9	15	15	32	17	19	10	32	16	29	13	27	8	29	14	29	9	33	20	29	9
9	4	−10	1	−18	3	− 1	18	4	15	−20	24	0	− 7	−13	27	12	10	9	8	−12	17	17	25	− 4	21	− 4	10	− 9
10	12	−19	17	−20	15	−27	22	− 3	6	−18	10	−12	10	−19	14	−16	17	−15	14	−20	11	−16	11	−22	10	−11	15	−20
11	8	−10	9	−13	10	−15	17	− 3	− 6	−20	13	− 7	2	−10	11	0	10	−14	10	− 9	18	−15	11	− 5	14	5	18	− 6
12	19	−10	25	− 7	30	−11	31	− 2	8	−12	20	− 5	25	−10	14	− 9	23	− 7	27	−10	23	− 7	21	−19	18	− 8	27	−18
13	22	− 6	28	7	29	− 3	27	4	18	0	32	9	28	− 5	24	− 1	34	− 6	28	4	29	4	30	4	28	4	30	5
14	5	− 2	9	− 6	9	− 7	6	3	0	−12	30	13	4	2	37	17	26	10	14	4	34	15	26	15	32	22	23	− 6
15	2	−10	0	−12	− 1	− 4	4	− 7	−12	−15	31	6	− 2	− 3	35	14	18	16	5	−11	23	− 5	22	− 2	22	0	12	− 2
16	−10	−22	− 3	−20	− 2	−20	− 1	−20	− 5	−22	6	−15	2	−17	14	−10	− 4	−15	1	−18	12	−12	3	−24	0	−14	1	−23
17	−10	−28	− 6	−23	− 6	−32	0	−24	0	−23	5	−19	1	−17	7	−18	6	−16	0	−23	9	−15	1	−38	3	−16	3	−23
18	− 9	−26	− 4	−28	− 2	−34	− 2	−26	− 2	−25	4	−15	− 2	−24	19	− 9	7	−16	0	−29	12	−16	− 3	−43	8	−14	0	−32
19	− 2	−27	3	−22	− 1	−30	6	−27	8	−20	7	−16	0	−22	20	−13	− 5	−17	2	−28	16	−18	− 1	−42	12	−16	6	−25
20	0	−26	4	−20	4	−28	5	−20	− 6	−18	13	− 1	3	−13	20	13	− 9	−15	6	−12	5	−15	10	−18	16	0	13	−11
21	−10	−25	− 9	−18	0	−20	−10	−19	−12	−28	13	−10	− 7	−16	15	−10	−10	−15	− 6	−15	12	−15	− 0	−18	10	− 8	2	−18
22	−10	−30	−10	−24	− 2	−22	− 6	−25	−14	−30	1	−14	− 7	−20	11	−10	− 6	−12	− 7	−18	13	−13	− 4	−16	4	−15	− 5	−20
23	− 5	−33	− 1	−25	− 4	−20	0	−26	5	−24	3	−22	0	−24	6	−20	7	−19	− 1	−24	16	−19	− 2	−32	0	−20	1	−24
24	5	−23	6	−18	10	−26	8	−23	12	−18	11	− 7	12	−18	15	−10	17	−16	10	−17	18	−16	7	−38	13	− 7	14	−32
25	14	−18	19	6	6	−10	23	0	15	2	29	6	25	−10	29	0	36	0	32	8	23	6	22	3	32	7	20	3
26	3	0	13	− 6	12	− 8	16	− 4	10	0	31	15	11	10	34	14	24	16	23	0	32	11	28	7	34	9	21	6
27	25	14	22	−11	28	− 6	35	−10	16	−18	18	− 1	20	−10	23	− 3	21	− 1	21	− 3	29	− 2	25	−13	19	2	22	−12
28	35	0	38	15	39	10	.....	14	33	8	38	7	37	− 6	35	7	39	7	38	15	38	2	40	4	37	13	39	6
29																												
30																												
31																												
Mns	9.9	−11.1	13.4	−7.8	13.9	−9.9	17.3*	−4.6	9.7	−8.2	20.8	1.0	11.9	−6.6	23.2	0.7	18.6	−1.3	15.2	−5.8	22.6	−2.5	17.4	−9.3	20.7	1.3	17.9	−7.2

Date.	Wisconsin.														Iowa.													
	Delavan.		Eau Claire.		La Crosse.		Madison.		Mauston.		Spooner.		Wausaw.		Algona.		Cedar Rapids.‡‡		Charles City.		Davenport.		Des Moines.		Dubuque.		Keokuk.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	35	15	43	15	42	19	36	15	40	23	38	19	36	14	40	20	40	2	37	15	44	21	48	24	40	19	49	23
2	37	28	35	25	32	23	32	26	38	12	30	16	30	12	35	21	39	20	31	15	41	30	42	26	38	31	48	32
3	34	19	32	9	32	16	32	17	33	14	29	− 1	35	14	26	7	31	22	27	8	34	25	31	16	35	18	36	28
4	32	14	33	11	34	14	32	17	30	16	29	11	33	14	34	12	35	19	30	10	34	24	36	21	35	18	42	25
5	23	10	26	7	21	7	21	5	27	10	15	0	21	6	25	9	25	17	24	1	30	11	29	12	35	9	38	24
6	17	− 4	25	4	22	4	16	0	20	− 6	22	5	19	− 7	21	− 3	21	0	18	−11	22	4	29	7	19	2	28	10
7	32	− 5	37	8	35	10	31	9	37	11	32	15	35	− 7	35	13	36	1	34	6	37	16	40	17	35	12	41	19
8	37	25	36	20	36	23	35	23	35	25	38	19	35	22	34	16	37	15	29	17	36	26	35	23	36	26	37	27
9	28	15	30	11	24	6	23	8	27	12	30	8	29	11	26	9	29	17	22	− 6	27	17	31	12	26	13	32	22
10	18	2	16	− 9	15	− 6	18	4	20	− 7	27	5	23	9	14	4	25	− 3	8	−17	18	0	25	0	17	− 4	30	12
11	34	− 2	19	6	24	8	23	7	20	0	16	7	22	6	15	4	25	− 5	15	1	29	7	25	6	24	6	35	18
12	21	3	18	− 1	20	5	20	8	20	7	17	− 8	25	5	16	− 6	17	4	14	− 8	16	2	20	0	18	4	25	6
13	25	0	30	5	31	5	28	4	28	5	28	5	28	3	31	3	33	2	27	− 4	34	10	37	9	27	2	40	13
14	39	19	37	18	37	19	35	22	35	18	28	6	37	11	35	18	42	7	37	20	48	32	49	31	39	27	57	34
15	42	28	32	14	32	14	36	15	32	22	21	11	35	13	33	9	48	27	33	8	52	20	41	8	45	19	58	29
16	34	8	16	− 9	14	− 1	15	− 2	25	0	11	−17	19	0	11	−10	8	6	8	− 6	20	3	8	− 1	19	1	29	10
17	9	− 6	7	−19	8	−10	7	− 7	7	−12	0	−23	9	−16	11	−10	10	− 3	5	−15	9	1	14	− 1	8	− 4	15	3
18	19	−11	20	−20	16	−12	14	− 8	12	−17	4	−24	18	−20	.....	.....	30	− 4	14	−10	29	2	32	8	23	− 4	29	7
19	26	13	15	−22	22	− 5	22	4	20	−12	8	−24	24	−23	19	− 9	36	3	23	− 2	35	18	36	12	29	13	38	18
20	31	15	22	11	22	11	26	18	25	9	17	− 1	21	9	23	5	28	14	23	2	34	21	30	9	27	17	32	28
21	25	10	20	−13	18	− 1	18	1	21	−10	11	−18	20	− 6	15	− 4	18	4	17	− 9	21	10	20	0	19	8	30	15
22	26	4	9	− 7	12	−11	17	−11	15	− 7	5	−12	18	3	12	− 6	17	6	10	−13	20	− 6	16	− 8	17	− 9	23	6
23	5	−13	5	−20	3	−14	1	−14	4	−18	− 1	−26	17	−20	4	−15	12	− 9	1	−14	6	− 8	7	− 9	4	−11	7	− 6
24	14	−12	15	−15	13	− 8	11	−10	12	−18	10	−17	14	−18	21	− 6	16	− 8	12	−11	14	− 4	20	− 1	16	− 8	20	− 1
25	26	−11	28	3	32	3	29	− 6	27	− 9	24	5	21	3	36	9	37	− 5	33	2	35	3	38	10	31	0	39	11
26	37	25	36	23	40	17	38	27	35	25	34	6	37	20	35	21	39	7	33	10	39	24	38	20	40	21	42	34
27	32	14	25	0	23	5	27	12	34	2	19	− 2	35	6	24	0	23	10	21	5	29	12	29	10	27	10	34	17
28	35	5	39	8	38	8	33	10	37	− 4	36	9	35	2	36	13	39	8	34	7	38	20	45	19	39	11	41	24
29																												
30																												
31																												
Mns	27.6	7.8	25.2	2.2	24.9	5.3	24.1	6.9	25.6	4.0	20.6	−0.9	26.1	2.4	24.7*	4.6*	28.4	6.2	22.1	0.0	29.7	12.2	30.4	10.0	27.1	8.8	34.8	17.4

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 5*—Continued.

Date.	Hannibal, Mo.		Laporte, Ind.		Illinois.															
					Cairo.		Greenville.		La Salle.		Monmouth.		Mt. Vernon.[f]		Peoria.		Springfield.		Winnebago.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	51	20	.....	.....	49	26	42	25	40	18	44	18	49	20	43	20	43	21	39	12
2	50	32	40	3	51	40	56	33	43	32	42	32	58	23	45	31	52	33	39	30
3	37	26	38	21	44	32	43	29	34	25	36	28	36	32	35	27	37	28	30	20
4	43	24	33	16	48	27	42	24	36	24	40	24	47	22	39	23	41	25	31	15
5	40	19	32	15	50	30	42	24	27	11	34	22	40	20	35	15	39	21	25	11
6	30	13	28	9	34	22	29	15	19	5	26	7	32	16	25	8	25	13	17	− 7
7	39	24	35	1	43	24	37	19	37	15	38	12	41	23	36	17	36	18	35	5
8	46	28	38	21	58	38	47	32	35	27	35	27	55	25	43	27	47	28	36	25
9	33	23	34	17	48	29	38	25	28	21	30	20	36	27	29	19	32	25	27	13
10	37	18	29	11	41	24	36	14	21	6	28	7	43	13	30	11	36	20	17	− 2
11	42	14	.....	.....	37	30	38	25	39	10	31	18	36	14	42	9	42	14	31	2
12	27	8	.....	.....	32	17	31	12	18	8	23	6	27	9	23	8	24	10	18	4
13	42	15	.....	.....	40	18	36	15	33	11	40	12	34	16	37	12	38	15	25	− 1
14	59	34	39	20	59	30	52	30	48	31	56	30	49	25	52	31	51	31	42	20
15	62	19	47	26	61	45	63	38	57	24	54	30	62	32	60	22	63	26	45	30
16	19	9	35	14	45	20	45	18	24	10	30	11	43	22	22	11	26	14	32	10
17	15	2	28	10	20	8	18	5	10	2	13	2	16	13	12	3	14	5	10	− 4
18	25	− 3	17	− 7	25	5	20	− 7	23	1	29	1	22	−15	22	0	19	− 5	23	− 9
19	37	14	29	3	35	12	32	2	34	14	38	12	35	0	33	10	29	7	30	15
20	40	25	39	12	45	28	37	19	33	24	33	25	40	6	34	25	37	22	31	21
21	25	19	33	16	42	30	37	26	26	18	31	9	35	31	27	18	33	23	25	12
22	28	2	33	12	42	27	30	17	22	− 5	24	6	39	25	25	− 4	29	6	22	3
23	11	− 4	17	− 5	29	12	17	− 1	3	−11	7	−10	23	3	8	− 9	10	− 3	4	−13
24	25	3	24	− 5	32	11	26	1	16	− 6	20	− 8	27	3	19	− 5	22	2	12	−10
25	41	17	27	3	48	21	38	13	35	1	36	2	42	10	37	8	36	12	30	− 5
26	43	31	40	21	56	45	42	35	40	31	38	32	45	18	39	30	41	35	37	29
27	32	21	38	22	50	33	38	29	31	19	33	14	39	30	31	20	33	25	33	10
28	44	27	34	21	44	33	37	23	37	21	39	18	39	26	39	23	40	25	35	9
29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	36.5	17.1	32.8[d]	11.5[d]	43.1	25.6	37.5	19.3	30.3	13?8	33.1	14.5	38.9	17.5	32.9	14.6	34.8	17.7	27.9	8.8

Climatological Data for February, 1910.

DISTRICT No. 6, MISSOURI VALLEY.

J. WARREN SMITH, District Editor.

GENERAL SUMMARY.

The month was cold and wet in Montana and North Dakota and dry and generally somewhat cooler than the average over the rest of the watershed.

Most of the low pressure areas moved across the central or southern part of the district, while most of the high pressure areas overspread the district from the northwest or moved easterly over the northern States. These movements caused frequent and somewhat extreme variations in temperature in the southern part of the Missouri watershed, and steadily cold weather in the northern part.

The prevailing wind was from the north in Kansas, from the west in Wyoming, Montana, and Colorado, and from the northwest in the other States.

Wyoming.—The mean temperature and total precipitation were below the normal. Over portions of the northern and western parts of the district the daily deficiency in temperature amounted to nearly 10° per day, while in some localities in the southeast there was a slight excess. The amount of snow in the mountains was increased but little during the month, although the cold weather prevented much melting. A good supply of snow was reported in the higher mountains at the close of the month. Some high winds were recorded during the last half of the month. At the close of the month the range conditions were much better than at the end of January and stock were able to secure feed over the greater portion of the State.—*W. S. Palmer.*

Montana.—The month was, on the whole, unusually cold and stormy. It was the coldest February during the past 16 years with the exception of 1899, and was from 10° to 12° colder than the 4 preceding Februaries. The average precipitation was the greatest for February since 1904, and has been exceeded for this month only twice during the past 16 years. The average sunshine was 56 per cent of the possible, which is slightly above the normal. The average wind velocity was about the normal. The stream flow was deficient in many tributaries of the Jefferson and Gallatin rivers and above normal in the Sun River. The February snows have materially increased the depth in the mountains in nearly all districts of Montana. East of the Continental Divide there has been a marked improvement in the outlook for a late flow of water in Marais and Milk watersheds, where a shortage was indicated at the close of January. The temperature conditions were unusually favorable for packing and solidifying the snow. Extracts from special reports follow.—*R. Frank Young.*

Kalispell.—More snow fell during the last 2 weeks of February than during the previous 2½ months. Above an elevation of 3,000 feet the depth is from 5 to 8 feet.—*F. N. Haines.*

Bozeman.—The snow in the Gallatin range has settled considerably from the effect of chinook winds, and is in condition to resist rapid melting.—*F. E. Baker.*

Bozeman.—The snow has drifted more than usual in the Bridger Mountains, where there is more than the average amount of snow. The indications are that all streams in this vicinity will be very high this spring.—*A. C. Berglund.*

Utica.—The snowfall in this part of the Little Belt Mountains has been the heaviest the past winter for many years.—*Thos. Gueyer.*

Zortman.—The snowfall the past winter in the Little Rockies has been greater than for the previous 3 years.—*F. G. Hart.*

Fort Shaw, Mont.—The weather conditions during February, 1910, were most unfavorable for all kinds of construction work on the Fort Shaw unit of the Sun River Project. The only feature of the work carried on was rock hauling, the roads being in excellent condition for transportation nearly the entire month. The ground is frozen to a depth of 12 inches.—*S. B. Robbins, Project Engineer.*

Lower Yellowstone Project.—The weather continued very mild till the 16th, when after a heavy fall of snow it turned very cold, and continued so till the 27th. During the early part of the month conditions were ideal for the work carried on at this project, which consisted chiefly of replenishing fuel supplies at the various camps.—*R. S. Stockton, Project Engineer.*

Butte, Mont.—From February 18 to 22 trains were more or less delayed by extremely low temperatures. February 14 trains were abandoned from Miles City to Montline, on account of snow drifs. On the 20th all freights and one passenger train were abandoned between Harlowton and Lewistown, and on the 21st all service was abandoned between the same points on account of heavy snows, and high winds which drifted the cuts full. Trouble was also experienced, due to the same cause, at Newcomb, Grace, Dorsey, and Summit, Mont., which delayed trains from 3 to 10 hours.—*E. H. Barret, Assistant General Superintendent Chicago, Milwaukee and Puget Sound Railway.*

Construction work at Summit, Mont., was suspended from the 15th to the 22d, on account of the low temperatures, which froze up the water supply for the steam shovel and locomotive. Engineering work from Butte to Melstone, and Harlowton to Lewistown was extensively interfered with by heavy snows, high winds, and blizzards from the 15th to the 18th.—*W. H. Penfield, Engineer of Construction, Chicago, Milwaukee and Puget Sound Railway.*

Helena, Mont.—The cold period from the 14th to the 22d prevented effective work on dam construction at Holter and Hauserlake power plants for only 3 days. Otherwise the weather did not seriously retard construction, nor was any particular trouble experienced from ice in the river. The average flow of the Missouri River was approximately 20 per cent above the normal for February, and the volume was not as seriously reduced by the extremely low temperatures from the 15th to the 23d as it would have been had these low temperatures occurred earlier in the winter.—*A. C. Pratt, Assistant Engineer, Missouri River Power Company.*

Milk River Project, Malta, Mont.—During the month of February the weather has been such as to prevent grading work on account of extreme cold, but some excavation and concrete work was carried on during the first half of the month. Survey work has been in progress through the entire month, except for a few stormy days during the latter half of the month.—*C. P. Williams, Project Engineer.*

Great Northern Railway, Fielding, Mont.—Construction work in the Rocky Mountain section was greatly retarded by the extremely cold weather and, on the 22d, about 75 per cent of the force here was laid off. Many snow slides occurred near the summit of the main range from the 23d to the 28th, requiring the engineering department forces to aid the operating department to clear the main line. During this period grading work was practically at a standstill.—*Geo. D. Eddy, Engineer in Charge Construction.*

Great Northern Railway, Whitefish, Mont.—Four feet of snow fell on the eastern slope between Cut Bank and the summit, and 10 feet of new snow fell in the higher mountains. At the close of the month there were 7 feet of snow on the level in the mountains. During the low temperatures the latter half it was very windy on the eastern slope. On account of snow slides the main line was blocked for 56 hours, which delayed all traffic through the mountains.

North Dakota.—Cold and disagreeable weather characterized the month of February. There was more than the usual number of clear days. The period from the 15th to 23d, inclusive, was one of the coldest on record in the State. Twenty-five stations reported minimum temperatures of −30° or lower and 7 reported minimum temperatures of −40° or lower. The precipitation was fairly well distributed and was slightly in excess of the normal. The heaviest precipitation, all of which occurred in the form of snow, was recorded on the 14th and 15th. The wind movement was nearly normal.—*Orris W. Roberts.*

South Dakota.—The mean temperature was nearly 5° below normal, and was the lowest, with 4 exceptions, in the past 20 years. The precipitation, which was practically all snow, averaged considerably below normal, except in parts of the Black Hills district and in some of the upper Missouri Valley counties. The ground was covered with snow practically all the month, except in the lower portion of the Black Hills district. There was about the normal amount of sunshine. The weather was, on the whole, unfavorable for nearly all outdoor work. The snow that fell, though of firm texture, was generally light and drifted easily with the frequent brisk and occasional high wind. As a result the cuts along the railways, particularly in the central and northern portions of the State, which had already been plowed out in January, were easily filled by new snow, resulting in much delay to railroad and

rural traffic. On several occasions there was a temporary annulment of railway train service and much steady snow-plow working. The wagon roads were in bad condition throughout the month, interfering with the transportation of farm products to market to a very material extent. The crust formed on the snow by occasional thawing weather made teaming with horses very difficult, slow, and unsatisfactory.

In the northwestern portion of the State the snow covering and low temperature very materially affected live stock interests and resulted in the loss of a number of sheep and some cattle.

In the Sioux National Forest the depth of the snow on the ground caused an almost entire cessation of lumber operations.

On the Cheyenne and Crow Creek Indian reservations the conditions were unusually severe; much snow, high wind, and severe cold, and cattle interests suffered severely. Some cattle on a full feed of hay died as a result of the very cold weather.

The State game warden reports that the weather was severe on both small and large wild game, especially on quail and deer, and in the Black Hills district big game suffered greatly on account of the heavy snow on the ground and the cold weather, being unable to procure food, and, in some cases, falling a prey to coyotes and wolves. The warden says in part, "Taken altogether, the past winter has been a severe one on most all kinds of wild game in sparsely settled portions of the State."

There was ample water supply for mining interests in the Black Hills district, and it will be helped by the compacted snow remaining in the gulches and on the northern slopes of the hills.

The rivers in the eastern portion of the State were frozen throughout the month, but the western portion of Cheyenne River and Rapid River were open at the close of the month and were running more water than usual.

Extracts from special reports received.—*S. W. Glenn.*

We feel that the month just passed through has been one of the severest months that we have had to battle with for a good many years. The high winds have continually resulted in blocking the part of the Milwaukee Railroad that I am connected with, between Aberdeen and Mobridge, S. Dak., and as far north as Linton, N. Dak. The blizzard of February 14 and 15 filled up all the cuts in this territory, and the continuous storms between that period and the 26th resulted in keeping them filled, notwithstanding our efforts to clean them out nearly every day, with rotary plows and plows of other descriptions.—*Superintendent, Chicago, Milwaukee and St. Paul Railway, Aberdeen, S. Dak.*

We have experienced more trouble with snow the past winter than we have in a number of years. We have had over the entire division more or less high wind, which has caused light snow to drift, filling in cuts from 2 to 8 feet in depth, and in many cases cuts had to be opened with a snow plow. Our worst period over the entire division was on February 14, 15, and 16. All train schedules had to be annulled on account of the storm. On February 16 some trains could be moved, but only behind snow plows. On February 21 and 22 another storm struck the entire division; all train schedules annulled on account of the drifting snow, which filled the cuts from 3 to 10 feet deep. I have been railroading for the past 43 years, and in all my experience I have never put in a winter as I have the past winter. While the weather was not extremely bad at any one period, yet the unfavorable conditions have been of long duration.—*Superintendent, Chicago and Northwestern Railway, Huron, S. Dak.*

The losses in live stock in this locality have been from 3 to 10 per cent, as a result of cold and deep snow.—*Special Agent, Crow Creek Indian Reservation, Crow Creek, S. Dak..*

The weather conditions were unusually severe. Much snow, high wind, and intense cold prevailed during the month. Cattle interests suffered severely. A large number of cattle, which were on a full feed of hay, died from the effects of the cold.—*Superintendent, Cheyenne River Indian Agency, S. Dak.*

The effect of the weather on work at the Belle Fourche Project, during the month of February, 1910, was very unfavorable, considering the month as a whole. Extreme cold and deep drifting snow, which filled the excavated portion of the work several times, have seriously interfered with the progress of the project.—*Engineer in Charge, Belle Fourche Irrigation Project, Belle Fourche, S. Dak.*

Weather conditions for February in Harding County, S. Dak., have been very unfavorable to live stock interests, because of the depth of the snow, the low temperature, and the results of the conditions in January. Sheep interests have suffered most. Cattle have been fed for 2 months and are probably in better shape than last year, because favorable conditions last summer resulted in an unusually luxuriant growth of forage grasses, which cured in splendid shape during the dry autumn. The water supply has been ample, however. The depth of snow caused an almost entire cessation of lumbering operations in this vicinity.—*Forest Supervisor, Sioux National Forest, Camp Crook, S. Dak.*

Colorado.—The month was dry and rather cool, especially in the mountain districts. The changes in temperature were frequent and were occasionally preceded by high winds. The highest monthly mean was 31.2° at Longmont, and the lowest 5.1° at Corona. The two stations are only about 25 miles apart, but Longmont is at an elevation of only 4,980 feet above sea level, while Corona is 11,660 feet above sea level. The sunshine was slightly less than normal. In general the snowfall during February was less than the average, and much less than for the corresponding month last year. There were a number of sharp changes in temperature, the alternate warm and cold spells being favorable for settling and solidifying the old snow. As compared with the usual depth at the close of February, there was a deficiency in all parts of the Platte drainage area. At high altitudes the snow was well packed; at moderate elevations, where the depths were not great, the condition of the snow was favorable for early melting.—*F. H. Brandenburg.*

Nebraska.—The mean temperature for the State was near the normal. One cold period occurred, lasting from the 16th to 24th. The precipitation was all snow and was nearly confined to the one storm of the 19th and 20th. The average for the State, 0.14 inch, was about one-fifth the normal amount. At about one-quarter of the stations the total precipitation for the month was a trace or zero. Snow appeared in drifts part of the month, but in general the ground was free of snow practically all the month. The number of rainy and cloudy days was below normal, and the sunshine was decidedly above. The average wind velocity was 10.3 miles an hour, which is about 0.4 mile above the average for February for the past 16 years.—*G. A. Loveland.*

Iowa.—The mean temperature was slightly below the normal. There was a marked deficiency of precipitation; the average being 0.40 inch, or 0.52 inch below the normal. At several stations it was the driest February in 21 years. The ground was practically bare of snow along the Missouri River and in the southern counties, except from the 20th to 24th, but over the northwestern slope of the Missouri divide there was snow on the ground during the whole month. The rivers remained closed during the month, with ice averaging 16 inches in thickness in the Missouri River, at Sioux City, on the last day. The sunshine was slightly above the normal and the month was very pleasant. There was very little frost in the ground and the fields will dry rapidly with the approach of warm weather. Some progress was made in gathering the 1909 corn crop, but nearly 20 per cent of the crop was still in the fields at the close of the month.—*G. M. Chappell.*

Kansas.—The month, as a whole, was mild and dry, with the percentage of sunshine above the normal in western portions and below normal in eastern. The deficiency in precipitation in the different river valleys was from one-half to three-fourths inch. The Republican River was frozen over from the 16th, and the Blue River from the 18th, to the close of the month. The Smoky Hill and Kansas rivers did not freeze. The snowfall was unusually light for February. The ground was thoroughly soaked from the precipitation of the previous months. The early sown fall wheat stood the cold winter fairly well, but the late sown was greatly damaged. Mail and transportation service was greatly improved, but the cold weather the latter half of the month interfered with building operations.—*T. B. Jennings.*

Missouri.—The monthly mean temperature was 1.3° below the normal. As a rule the month was much colder in the

southwestern lowlands and along the narrow slope of ths Ozark Range of hills than it was over the northwestern plain. The temperature extremes were within those of former years. The monthly precipitation was below the average over all the watersheds, the deficiency being most marked in the Grand, Chariton, and Missouri valleys. Some few stations in the Osage and Gasconade valleys reported an excess. Winter wheat on uplands was damaged by the freezing and thawing, but lowland wheat apparently wintered well. It is reported that the low temperatures of the 18th injured fruit buds in the Ozark region. The alternate freezing and thawing during the first part of the month were unfavorable to the commission and produce men and other shippers of perishable products. The general lines of transportation and distribution were pursued under conditions nearly normal for the season, except during the heavy snow and low temperature on the 16-18th. There were no floods during the month, but as a rule, average water stages prevailed. There was much floating ice, and navigation was suspended on the 18-19th. The sunshine was nearly normal and the humidity was about 5 per cent below the normal.—*George Reeder.*

TEMPERATURE.

The average temperature was about normal in parts of Kansas, Nebraska, and eastern Colorado, but was generally below the normal elsewhere. In Montana it was the coldest February on record with one exception, and in South Dakota the coldest with four exceptions. The highest temperature was 80° at Canton, Nebr., on the 14th. Maximum temperatures of over 60° were recorded in all the States except North Dakota and Iowa, and of over 70° in Wyoming, Colorado, Nebraska, Kansas, and Missouri. The lowest temperature was −50° at Medora, N. Dak., on the 18th. Minimum temperatures of −10° or lower were recorded in all of the States except Kansas, and of −30° or lower in Wyoming, Montana, North Dakota, South Dakota, and Colorado.

PRECIPITATION.

The precipitation was in excess of the normal in Montana and North Dakota, but deficient elsewhere. In Montana the average for the month was the greatest on record for February, with two exceptions. In western Iowa, on the other hand, some stations reported the driest February on record, and the average for Nebraska was only about one-fifth of the usual amount. About one-fourth of the Nebraska stations reported no precipitation, or only a trace. The greatest monthly precipitation was 5.18 inches at Arlington, Mo., and the greatest amount in any 24 hours was 1.70 inch at the same station. The greatest monthly snowfall was 50.4 inches at Corona, Colo.

RIVERS.

The rivers were considerably below the flood stage throughout the month. The central and upper portions of the Missouri River remained frozen, while there was much floating ice below Omaha. Messrs. Waddell & Harrington report that no work was done on the piers of the bridge at Kansas City because, while the ice was not heavy, it was not considered to be quite safe to attempt to keep barges in the rivers. The Chief Engineer of the Northern Pacific Railroad Company states that the ice in the Yellowstone River was very heavy at the close of the month, while generally it is well rotted by that time. He reports that the conditions in general in the Missouri watershed west of Bismarck, especially in the Yellowstone Valley and its tributaries, and to the south of the Missouri River, were very similar to those of the winter of 1880 and 1881. The amount of snow on the ground was much greater than in ordinary years, and similar to the winter above mentioned.

The fish and game warden of Kansas reports some damage to the fish interests at Lake View, about 5 miles northwest of the City of Lawrence. This lake is a body of water of about 200 acres, which is an old bed of the Kansas River. The ice jammed up in this lake, and in places thousands of fish were pushed and floated out of the lake and left on the fields to die. Large flocks of crows collected and fed on the fish.

The engineer in charge of the work upon the municipal bridge at St. Louis states that the severe weather, together with ice in the river during the months of December, January, and February, delayed progress upon the foundation work, sinking of caissons, etc., to such an extent that the completion of the bridge may be delayed a year. The ice gorge not only grounded and damaged all the contractors' barges, but moved the caisson for the east pier 45 feet.

MISCELLANEOUS.

The snowfall at St. Louis during February was 21.3 inches and was the greatest amount for any month since the observations began. The street commissioner reports that the expense of clearing the streets of the snow cost the city about $23,000. Over 3,000 men were given temporary employment by the city and the different railroad companies shoveling snow.

The severe weather during February prevented shippers from loading out, and interfered somewhat with loading of logs and other forest products, thus causing considerable falling off in the hauling of freight by the railroads in this district. Passenger revenues were reduced somewhat also by the falling off in travel, incident to severe weather conditions and difficulty in maintaining regularity in train movement.

TABLE 1.—*Climatological data for February, 1910. District No. 6, Missouri Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Wyoming.																				
Arapahoe	Fremont		2																	David Malloy.
Barnum	Johnson	5,500	5								0.60		0.30	7.0	3	24	3	1	nw.	Thomas Freegaurd.
Basin	Big Horn	3,862	11	9.2	− 8.7	44	14†	−21	22	44	T.	− 0.41	T.	T.	0	18	7	3	s.	O. J. Robertson.
Bennett	Carbon		2																	Chas. C. Young.
Big Creek Station	Albany			19.0		52	24	−15	17	47	0.35		0.08	7.8	8	8	17	3	w.	U. S. Forest Service.
Casper	Natrona	5,101	2	25.4		55	14	−10	16	43	0.02		0.01	0.2	2	9	2	17	sw.	M. C. Cook.
Cheyenne	Laramie	6,088	39	23.2	− 3.1	59	14	−10	22	40	0.31	− 0.25	0.14	3.5	5	7	12	9	nw.	U. S. Weather Bureau.
Chugwater	do	5,282	9	25.7	− 2.0	62	14	−11	3	50						27	3	0	w.	George Milne.
Clark	Big Horn	4,320	4	20.6		52	1	−23	22	50	0.51		0.15	7.5	7	10	5	13	n.	Chas. A. C. Snow.
Cody	do	5,000	3	17.5		50	24	−28	22	50	0.37		0.19	4.0	4	11	12	5	ne.	F. A. Fish.
Crystal Lake Reservoir	Laramie	6,900	1			54	14	−12	17†										nw.	Cheyenne City Engineer.
Dome Lake	Sheridan	8,821	2	10.8		39	5	−24	2	46	0.30		0.20	3.0	2	16	9	3	sw.	Chas. Hidlay.
Douglas	Converse	4,793	1	26.1		55	14	−13	22	40	0.52		0.12		7					Henry C. Miller.
Dubois	Fremont	6,909	3	19.4		42	14	−21	16	54	0.05		0.03	3.2	2	7	17	4	nw.	Dr. F. H. Welty.
Eaton's Ranch	Sheridan	4,600	5	28.0		76	5	−26	22	64	1.20		0.30	12.0	7	15	7	4	w.	F. A. Eaton.
Echeta	Crook	4,200	1								0.40		0.25	4.0	3	21	2	5	n.	M. R. Hunter.
Elk Mountain	Carbon		5								1.99		0.60	39.5	10					Wm. Richardson.
Encampment	do	7,322	1	21.6		48	7	−16	17	33	0.04		0.02		3	14	9	2	w.	U. S. Forest Service.
Ervay	Natrona		1	18.1		45	28	−33	16	50	0.50		0.18	11.0	6	18	5	5	sw.	Frank Jameson.
Fort Laramie	Laramie	4,270	32	27.3	+ 0.1	68	28	− 8	22	52	0.14	− 0.26	0.09	4.0	3	21	7	0	w.	John Hunton.
Fox Creek Station	Albany			13.8		37	14	−24	3	50	0.62			6.2		12	8	8	w.	U. S. Forest Service.
Gillette	Crook	4,546	3	18.7		47	28	−24	22	54	0.50		0.20	5.0	4	17	5	6		S. D. Perry.
Granite Canyon	Laramie	7,337	5								0.49		0.20	5.2	7					Lee A. Boyce.
Hunters' Station	Johnson	8,000	4	13.3a		48a	2	−25a	16	50a	0.19a		0.11a	4.0a	3a	16a	3a	2a	ne.	U. S. Forest Service.
Hyattville	Big Horn	4,632	11	18.0	− 7.0	51	13†	−25	22	41						12	9	7		Wm. Booth.
Kirtley	Converse		6	19.0	− 5.1	49	14	−20	22	39	0.25	− 0.08	0.17	3.0	2	18	8	2	nw.	D. M. Zum Brunnen.
Kirwin	Big Horn	9,187	2																	C. L. Tewksbury.
Knowles	Crook		1								0.66		0.24	8.8	5					G. A. Knowles.
Lander	Fremont	5,372	18	12.2	− 0.6	51	13	−22	3	53	0.39	− 0.26	0.27	5.5	5	10	16	2	ne.	U. S. Weather Bureau.
Laramie	Albany	7,188	19	21.4	− 0.3	50	14	−14	20	42	0.04	− 0.24	0.03	0.4	2	11	9	8	sw.	University of Wyoming.
Leo	do	6,878	9	18.6	− 3.4	44	14	−17	3	44	0.26	− 0.28	0.07	0.5	8	10	4	14	w.	C. A. Cowdin.
Lolobama Ranch	Big Horn	7,052	6	15.0	− 5.0	45	24	−39	16	59	0.80	+ 0.38	0.30	30.8	5	10	13	5	w.	Mary E. Painter.
Lovell	do		5	15.0		48	25	−30	22	40	0.14		0.06	3.0	3	12	3	13	se.	R. Fred Harrison.
Lusk	Converse	5,007	20	21.2		54	28	−20	21	57	0.30		0.30	3.0	1					D. E. Goddard.
Luther	Laramie		1																	Henry D. Colburn.
Manville	Converse	5,050	1								0.45		0.15	4.5	5	19	7	2	w.	C. A. Sherman.
Moorcroft	Crook	4,211	7	10.4	−10.7	46	14†	−33	17	50	0.30	− 0.35	0.30	3.0	1	12	13	3		James K. Somers.
Moore	Albany	6,000	9	25.1	− 2.9	58	14	−12	22	42	0.29	− 0.21	0.10	10.6	7	5	15	8	w.	Edwin Moore.
Newcastle	Weston	4,319	3	18.0		51	28	−22	22	45	0.70		0.40	7.0	3	18	8	2	nw.	Dr. S. W. Johnson.
Pathfinder	Natrona	5,735	4	21.2	− 3.8	47	28	−15	3	47	0.15	− 0.19	0.10	5.5	2	14	7	7	sw.	U. S. Reclamation Service.
Phillips	Laramie	4,900	7	28.4	+ 2.3	64	14	−10	20	40	0.10	− 0.39	0.10	1.0	1	15	9	4	w.	Mrs. Arthur Rugg
Pine Bluff	do	5,038	9																	Sumner Miller.
Powell	Big Horn	4,376	3	14.4		51	14	−25	22	38	0.04		0.03	0.6	2	16	11	1	nw.	U. S. Reclamation Service.
Rawlins	Carbon	6,748	8	21.2	− 2.2	43	14	− 5	3	33	0.18	− 0.33	0.08	2.2	7	9	15	4	w.	C. J. Ehrenfeld.
Riverton	Big Horn	4,960	2	14.2		48	25	−20	3†											Fred L. McGiffin.
Saratoga	Carbon	7,300	12	22.6	+ 0.2	47	14	− 7	3†	42	0.21	− 0.76	0.15	2.5	2	5	16	7	e.	Saratoga & Enc'pm'nt Ry.
Sheridan	Sheridan	3,790	15	15.7	− 5.2	52	28	−23	22	47	0.23	− 0.51	0.05	3.8	7	12	10	6	nw.	U. S. Weather Bureau.
Shoshone Dam	Big Horn	5,385	4	23.5		57	1	−22	22	43	0.35		0.20	3.5	3	21	5	2	w.	U. S. Reclamation Service.
Soldiers Home	Johnson	4,635	18	21.7	− 2.1	57	25	−25	22	52	0.15	− 0.38	0.10	1.5	2	6	19	2	nw.	Geo. L. Courtney.
South Pass City	Fremont	7,873	8	11.8		36	14†	−20	3	42	0.67		0.23	9.8	9	12	10	6	sw.	John Sherlock.
Thermopolis	do	4,350	6																	A. L. Duhig.
Upton	Weston		1																	G. E. McPherren.
Valley	Big Horn	6,500	1								0.24		0.08	5.5	6	13	12	3	w.	Jas. L. McLaughlin.
Verona	Sheridan		1																	O. A. Roode.
Wiley	Big Horn	5,375	1	19.2		51	14	−27	22	49	0.85		0.30	10.0	8	15	10	3	w.	C. D. Marshall.
Wyncote	Laramie	4,207	3	26.8		66	14	− 9	17	56	T.		T.	T.	0	15	11	2	nw.	U. S. Reclamation Service.
Yellowstone Park	National Park	6,300	22	19.6	− 4.4	40	28	−20	16	43	1.61	− 0.23	0.37	20.7	18	7	8	13	s.	U. S. Weather Bureau.
(1) Fountain Hotel	do	7,220	4	10.8		35	24†	−27	2	58	2.56		0.86		9	9	5	14	s.	U. S. Army.
(2) Grand Canyon	do	7,900	3																	Do.
(3) Lake Hotel	do	7,733	6	6.7		45	2	−36	16	69	2.51		0.46	38.0	18	9	5	14	s.	Do.
(4) Norris Gey. Basin	do	7,525	6	10.2		36	4	−32	16	64	1.63		0.60	23.5	6	11	0	17	w.	Do.
(5) Riverside	do	6,500	4	12.2		41	24	−32	16	59	2.46		0.50		12	7	6	15	w.	Do.
(6) Soda Butte	do	7,000	5	12.2		42	24	−35	16	43	1.80		0.60	17.5	7	10	10	8	w.	Do.
(7) Sylvan Pass	do	7,000	3	15.0		41	24	−22	16	51	2.67		0.48	24.0	9	9	2	17	w.	Do.
(8) Thumb	do	7,772	4	10.8		52	14	−28	16	44	7.21		0.94	61.0	16	9	10	9	w.	Do.
(9) Tower Falls	do	6,250	1	14.5		44	1	−30	16	54	3.33		0.95	29.0	8	13	6	9	w.	Do.
(10) Upper Gey. Basin	do	7,395	6	13.4		37	24	−34	16	55	1.80		0.60		6	12	0	16	sw.	Do.
Montana.																				
Adams	Dawson		2	8.2		40	4†	−31	22	44	0.70		0.50	11.0	3	14	4	10	nw.	W. B. Ennis.
Adel	Cascade	5,200	11	18.2	− 3.3	44	13†	−20	21	50	2.15	+ 1.27	1.40	21.5	8	11	3	14	w.	Bessie F. Burch.
Agricultural College	Gallatin	4,700	12	14.0	− 8.5	48	27	−29	22	43	0.82	− 0.07	0.20	16.2	8	4	13	11	se.	J. L. McCraw.
Augusta	Lewis & Clark	4,371	12	14.4	− 8.7	47	6	−46	22	59	0.77	+ 0.34	0.55	7.7	4	17	7	4	w.	C. C. Covington.
Babb	Teton	4,461	4	16.0		44	4	−32	16	49	2.74		1.38	11.5	4	16	6	6	sw.	U. S. Reclamation Service.
Bald Butte	Lewis & Clark	6,500									2.27		0.77	35.8	12	4	9	15		Matt W. Alderson.
Big Creek	Park	5,800	2								1.30		0.50	13.0	9	6	13	9	w.	Peter Vink.
Big Timber	Sweetgrass	4,072	5																	W. H. Patterson.
Big Timber Creek	do										1.76		1.20	30.6	6	9	15	4	w.	Do.
Billings	Yellowstone	3,115	15	18.5	− 7.1	48	13	−32	22	52	0.06	− 0.43	0.04		2				w.	U. S. Weather Bureau.
Boulder Noursery	Jefferson	4,920	14	13.8	− 7.4	43	13†	−38	22	50	0.70	+ 0.26	0.30	7.0	3	7	15	6		U. S. Forest Service.
Bowen	Beaverhead	6,060	4	8.1		38	24	−36	2	47	1.06		0.38	19.8	8	8	6	14		B. B. Lawrence.
Bridger	Carbon	3,664	2	18.9		55	28	−25	22	43	0.05		0.02	3.0	3	8	10	10	s.	L. E. Gard.
Broadview Exp. Station	Yellowstone		4	11.2		42	13	−46	22	40	1.01		0.30	13.0	7	10	15	3	s.	Thos. S. Hunt.
Busby	Rosebud		5	10.6		48	27	−40	22	51	0.34		0.12	4.5	9	10	9	9	nw.	G. A. Linschied.
Busteed	Sweetgrass		2	18.8		49	24	−36	22	38	0.63		0.16	11.3	9	9	11	8	w.	Thos. H. Busteed.
Butte	Silver Bow	5,716	15	20.0	− 4.9	53	28	−24	22	35	0.95	+ 0.11	0.30	9.5	8	6	8	14	nw.	J. R. Warton.
Canyon Ferry	Lewis & Clark	3,644	12	16.4	− 5.4	49	13†	−34	22	41	0.27	− 0.23	0.10	6.0	5	8	11	9	nw.	A. C. Pratt.
Cascade	Cascade	3,361	5	18.0		52	13	−44	22	60	1.13		0.60	15.8	8	12	10	6	sw.	E. E. James.
Cataract Creek	Jefferson	7,000									0.88		0.29	19.2	9	12	11	5	nw.	Fred Gerdes.
Chessman Reservoir	Lewis & Clark	5,275	2	12.8		42	1	−38	22	46	1.44		0.30	20.3	12	11	4	13	sw.	Chas. D. Schmidt.
Chester	Chouteau	3,140	7																	B. B. Weldy.
Chinook	do	2,502	10								0.70	+ 0.35								Thos. O'Hanlon Co.
Chouteau	Teton	3,810	6	18.8c		52c	6	−40c	22	58c	0.65		0.30	6.5	4	10c	4c	11c		H. Van De Riet.
Clear Creek	Chouteau		4	13.0c		47a	6	−24a	21†	48a	0.80		0.50	8.0	3	9i	6i	4i	w.	Cortez Sedgwick.
Clemons	Lewis & Clark	4,672																		Frank Eberl.
Copper	Meagher		5								1.36		0.35	19.0	11	6	5	17	nw.	Orville Harris.
Crow Agency	Rosebud	3,041	28	14.4	− 5.4	48	13	−35	22	42	0.44	− 0.15	0.20	4.4	5	16	7	5	nw.	F. E. Server.
Culbertson	Valley	1,927	8	3.1		48	28	−42	18	48	0.70		0.30	7.0	4	5	15	8	nw.	G. H. Coulter.

TABLE 1.—*Climatological data for February, 1910. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Montana—Cont'd.																				
Cut Bank	Teton	3,700	12	14.3	− 3.4	48	6	−45	22	50	0.61	− 0.15	0.29	5.7	4	11	6	11	nw.	Chas. N. Thomas.
Decker	Rosebud	3,400	6	3.8	.....	33	28	−40	22	44	0.40	.....	0.20	4.0	2	...	...	...	...	Adam Anderson.
Delpine	Meagher	5,000	...	...	.....	...	...	...	...	...	0.46	.....	0.21	15.2	8	7	9	12	w.	T. B. Holliday.
Denton	Fergus	...	2	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	R. M. Chamberlain.
Dillon	Beaverhead	5,147	13	23.8	− 2.8	53	28	−22	22	47	1.69	+ 1.00	0.40	16.8	8	7	5	16	sw.	J. E. Monroe.
Dirty Creek	Meagher	6,000	...	...	.....	...	...	...	...	...	0.86	.....	0.39	13.1	7	11	7	10	nw.	Lewis Cameron.
Dry Creek	Broadwater	5,500	...	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	J. C. Stuart.
Dry Wolf Camp	Cascade	6,000	...	...	.....	...	...	...	...	...	1.89	.....	1.00	33.7	8	14	8	6	n.	Mrs. R. J. Eveleth.
East Gallatin River	Gallatin	6,000	...	...	.....	...	...	...	...	...	1.11	.....	0.28	15.5	9	8	1	19	w.	John Eberhart.
Ekalaka	Custer	...	10	13.5	.....	45	1†	−34	22	47	0.50	.....	0.20	5.0	3	15	8	5	w.	Wm. Freese.
Elkborn	Jefferson	6,576	1	...	.....	...	...	...	...	...	0.92	.....	0.18	16.8	12	5	11	12	sw.	James Heagan.
Evans	Cascade	4,900	3	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	H. Tharsher.
Fallon	Custer	2,208	6	7.0	.....	49	27	−39	17	48	0.90	.....	0.77	11.6	3	17	5	6	nw.	Mrs. A. C. Gifford
Family§	Teton	3,950	1	17.8	.....	47	24	−32	22	58	0.61	.....	...	8.1	...	14	10	4	w.	U. S. Reclamation Service.
Fish Creek‡§	Silver Bow	8,500	...	15.0	.....	36	4†	−16	2†	38	1.78	.....	0.64	40.0	6	5	1	22	w.	O. B. Tilton.
Fish Tail Creek	Carbon	5,000	...	...	.....	...	...	...	...	...	0.34	.....	0.21	7.3	4	17	5	6	w.	O. E. Haskin.
Flathead Creek	Gallatin	6,000	...	...	.....	...	...	...	...	...	2.08	.....	0.42	22.2	10	6	8	14	nw.	L. G. Brown.
Forsyth	Rosebud	2,514	4	15.2[a]	.....	50[a]	27	−38[a]	22	41[b]	0.40	.....	0.20	4.0	3	9	4	15	e.	W. F. Clarke.
Fort Benton	Chouteau	2,630	35	17.4	− 4.8	61	1	−42	22	44	0.32	− 0.13	0.32	4.0	1	20	6	2	sw.	Jere Sullivan.
Fort Shaw	Cascade	3,500	22	16.8	− 8.1	52	13	−43	22	51	2.52	+ 2.02	0.92	6.3	5	17	9	2	sw.	U. S. Reclamation Service.
Fort W. H. Harrison§	Lewis & Clark	4,004	6	12.7	.....	46	13	−29	22	50	...	.....	...	...	...	7	17	4	w.	Post Hospital.
Foster	Yellowstone	...	...	15.7	.....	46	25	−39	22	44	0.09	.....	0.06	0.8	3	10	7	11	sw.	E. K. Bowman.
Garneil	Fergus	5,500	1	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	Thos. E. Scally.
Glendive	Dawson	2,089	20	9.0	− 3.8	48	28	−34	17	37	0.43	− 0.21	...	9.0	...	15	11	2	sw.	W. B. Walker.
Goldbutte	Chouteau	...	3	11.8	.....	45	4	−33	22	42	0.39	.....	0.20	9.0	8	10	14	4	sw.	J. T. Berthelote.
Graham	Custer	...	4	15.4	.....	49	28	−33	22	48	0.10	.....	0.05	2.6	5	6	16	6	sw.	J. S. Rue.
Grayling	Gallatin	6,700	4	9.4	.....	35	12†	−39	4	53	0.56	.....	0.32	7.0	5	11	1	16	sw.	P. Kersenmacher.
Great Falls	Cascade	3,350	19	18.5	− 7.8	45	4†	−34	22	51	0.99	+ 0.47	0.31	11.3	10	9	16	3	n.	S. H. Bauman.
Half Moon Pass	Fergus	6,500	...	...	.....	...	...	...	...	...	0.40	.....	0.08	3.7	12	3	18	7	w.	Thos. Stigen.
Half Way House	Broadwater	6,000	...	...	.....	...	...	...	...	...	2.88	.....	0.69	35.6	12	10	13	5	sw.	Gordon Deans.
Harlowton	Meagher	4,165	2	14.4[a]	.....	55[a]	24	−38	22	65[a]	...	.....	...	...	...	7[a]	10[a]	10[a]	w.	Joseph Muir.
Hassel	Broadwater	5,200	...	...	.....	...	...	...	...	...	0.41	.....	0.21	4.3	3	0	18	10	nw.	E. C. Albrecht.
Havre	Chouteau	2,505	30	11.5	− 3.5	50	4	−33	22	46	0.79	+ 0.32	0.25	7.9	8	9	10	9	sw.	U. S. Weather Bureau.
Helena	Lewis & Clark	4,110	30	16.4	− 5.8	48	13	−29	22	42	1.18	+ 0.44	0.68	19.3	11	7	8	13	w.	Do.
Highwood	Chouteau	...	3	...	.....	...	...	...	...	...	1.74	.....	0.67	19.8	9	14	5	9	sw.	W. S. McCord.
Home Park	Madison	...	5	...	.....	...	...	...	...	...	0.59	.....	0.20	6.5	5	5	11	12	s.	H. L. Miller.
Huntley	Yellowstone	3,014	4	17.4	.....	48	13	−40	22	42	0.62	.....	0.50	3.5	2	8	17	3	ne.	U. S. Reclamation Service.
Jones Canyon	Gallatin	6,800	...	...	.....	...	...	...	...	...	2.72	.....	0.79	48.5	14	3	15	10	w.	Jas. McCune.
Jordon	Dawson	...	5	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	W. C. Hendeson.
Kleinsmith Creek	Jefferson	6,000	1	...	.....	...	...	...	...	...	0.67	.....	0.20	12.4	12	2	22	4	w.	Mrs. E. W. Mills.
Lewistown	Fergus	4,010	13	17.8	− 5.7	50	4	−36	22	43	0.91	+ 0.01	0.22	.....	9	12	10	6	nw.	W. W. Watson.
Livingston	Park	4,488	13	20.8	− 6.9	47	24	−27	22	48	0.70	+ 0.16	0.15	10.5	7	11	7	10	sw.	Lewis Terwilliger.
Lodge Pole Creek	Sweetgrass	5,700	...	...	.....	...	...	...	...	...	0.53	.....	0.28	5.0	4	5	19	4	w.	F. G. White.
Lone Tree	Chouteau	...	5	17.9	.....	51	13	−33	22	49	1.87	.....	1.25	19.0	5	13	1	14	w.	E. Wilson.
Lost Horse Creek	Meagher	5,800	...	...	.....	...	...	...	...	...	0.73	.....	0.31	15.2	10	7	18	3	w.	C. M. Mason.
Malta	Valley	2,240	3	8.0	.....	49	4	−41	17	43	0.58	.....	0.25	7.5	7	15	7	6	w.	U. S. Reclamation Service.
Meadow Creek	Madison	6,700	...	...	.....	...	...	...	...	...	1.40	.....	0.35	17.5	6	14	10	14	w.	F. E. Parent.
Melstone	Fergus	2,903	...	...	.....	...	...	...	...	...	0.43	.....	0.17	7.5	6	...	...	...	...	E. J. Parkinson.
Mildred	Custer	...	...	...	.....	...	...	...	...	...	0.60	.....	0.60	8.0	1	20	6	2	nw.	Leon B. Clarke.
Miles City	do	2,371	19	12.8	− 4.0	49	28	−29	22	38	0.80	+ 0.24	0.38	7.6	8	12	9	7	s.	U. S. Weather Bureau.
Mill Creek	Park	5,500	1	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	W. H. Edick.
Moore	Fergus	...	3	...	.....	...	...	...	...	...	1.07	.....	0.43	14.0	4	11	6	11	sw.	Clyde Grove.
Mudd Creek	Deer Lodge	...	...	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	Emory Mudd.
Norris	Madison	4,845	4	22.5	.....	54	7	−19	22	58	0.51	.....	0.30	8.1	5	10	4	14	s.	Madison River Power Co.
Nye	Sweetgrass	...	2	17.2	.....	46	4	−38	22	47	0.24	.....	0.08	7.2	7	13	5	10	sw.	F. L. Bryant.
Olsen Creek	Jefferson	6,345	1	...	.....	...	...	...	...	...	0.46	.....	0.12	13.6	8	4	8	16	w.	Robt. Olsen.
Pipestone Pass	do	7,000	1	...	.....	...	...	...	...	...	0.96	.....	0.35	17.5	9	9	14	5	w.	Mrs. Theola Kiermeyer.
Poplar	Valley	2,020	25	2.0	− 5.4	45	27	−44	18	43	0.32	− 0.25	0.32	3.2	1	23	2	3	w.	H. M. Cosier.
Raymond	Teton	4,260	...	15.8[c]	.....	50[a]	27	−38[d]	21	51	1.98	.....	0.70	.....	6	15	11	2	nw.	W. H. Campbell.
Red Lodge	Carbon	5,548	10	15.9	− 5.5	51	13	−30	22	52	0.53	− 0.39	0.23	8.9	...	7	10	11	se.	I. A. Draper.
Reese Creek	Gallatin	5,000	...	...	.....	...	...	...	...	...	1.34	.....	0.42	19.6	5	8	2	18	.....	Henry Cramer.
Renova	Jefferson	4,383	11	19.1	− 6.0	50	13	−32	22	54	0.40	0.00	0.12	3.6	7	9	8	11	sw.	F. B. Elmer.
Rimini	Lewis & Clark	7,900	2	...	.....	...	...	...	...	...	1.72	.....	0.41	22.8	8	9	9	10	w.	Milo Brooks.
Ryegate	Yellowstone	3,640	1	17.4	.....	50	13†	−40	22	56	0.27	.....	0.10	5.2	3	20	0	8	nw.	H. W. Scherfenberg.
Sedan	Gallatin	3,155	2	13.6	.....	43	1	−38	22	41	0.91	.....	0.30	19.2	9	4	15	9	w.	Jas. Woosley.
Springbrook	Dawson	...	9	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	Mrs. H. L. Miller.
Stearns	Lewis & Clark	4,500	...	...	.....	...	...	...	...	...	1.18	.....	0.65	18.5	4	11	0	16	w.	J. W. Hardgrove.
Three Forks	Gallatin	4,066	...	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	A. A. Adams
Tokna§	Dawson	2,050	5	6.3	.....	46	28	−45	18	42	0.91	.....	.....	9.2	4	17	6	5	.....	U. S. Reclamation Service.
Townsend	Broadwater	3,790	1	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	River Observer.
Trail Creek	Park	6,000	1	...	.....	...	...	...	...	...	0.90	.....	0.17	26.9	12	15	5	8	w.	Andrew Wiedenbauer.
Utica	Fergus	5,000	16	16.2	− 7.6	47	4	−32	22	43	1.18	+ 0.84	0.90	14.0	3	20	4	4	w.	P. W. Korell.
Valentine	do	...	4	12.3	.....	52	4	−49	22	46	0.75	.....	0.59	.....	4	12	4	12	w.	B. M. Bean.
Virginia City	Madison	5,880	22	17.8	− 5.5	43	24	−19	23	32	0.10	− 0.46	0.05	6.0	2	11	6	11	sw.	M. Mailand.
Wall Rock Mountain	Broadwater	5,600	...	...	.....	...	...	...	...	...	1.46	.....	0.34	17.3	12	7	18	3	.....	D. L. Doig.
Warm Springs Creek	Madison	7,500	...	...	.....	...	...	...	...	...	1.08	.....	0.27	15.8	11	5	6	17	sw.	M. D. Lytle.
West Rosebud Creek	Carbon	...	...	...	.....	...	...	...	...	...	0.46	.....	0.15	8.5	7	10	11	7	.....	C. P. Whitten.
Willow Creek	Park	9,000	...	...	.....	...	...	...	...	...	0.85	.....	0.34	14.5	6	4	15	9	w.	John Topp.
Wolf Creek	Lewis & Clark	4,000	5	19.6	.....	50	13	−33	22	44	1.26	.....	0.83	11.2	6	10	10	8	n.	A. W. Verharen.
Wolf Point	Valley	1,995	...	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	River Observer.
Woodville	Jefferson	6,376	...	...	.....	...	...	...	...	...	1.09	.....	0.34	13.1	8	7	15	6	sw.	Anna Kinman.
North Dakota.																				
Aplin	Oliver	...	3	4.0	.....	40	28	−40	18	44	0.50	.....	0.20	5.0	4	10	8	10	nw.	J. B. Hagelbarger.
Beach	Billings	2,759	3	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	D. J. Steiner.
Berthold Agency	McLean	2,082	13	4.4	− 4.8	44	28	−42	18	48	0.22	− 0.35	0.05	2.6	4	14	6	8	nw.	C. L. Hall.
Bismarck	Burleigh	1,674	35	4.0	− 4.3	43	28	−37	18	35	0.57	+ 0.07	0.50	12.3	5	13	5	10	nw.	U. S. Weather Bureau.
Broncho	Mercer	...	2	...	.....	...	...	...	...	...	...	.....	...	...	...	...	...	...	...	E. M. Walker.
Buford	Williams	1,944	4	3.8[a]	.....	42[a]	25	−46[a]	18	43[a]	0.28	.....	0.10	2.5	3	...	...	...	nw.	G. O. Sanford.
Coal Harbor	McLean	1,901	13	2.6[a]	− 5.3	37[a]	1	−37[a]	18	40[a]	0.50	− 0.15	0.20	5.0	4	12	0	16	w.	F. H. Childs.
Dickinson	Stark	2,453	17	4.6	− 7.1	42	27	−40	18	44	0.97	− 0.49	0.71	8.0	5	15	6	7	nw.	L. R. Waldron.
Edgeley	Lamoure	1,468	8	5.2	− 4.4	38	28	−29	18	35	0.30	− 0.08	0.30	.....	2	19	2	7	nw.	O. A. Thompson.
Ellendale	Dickey	1,449	17	5.4	− 5.3	38	28	−31	19	41	0.10	− 0.47	0.10	.....	1	12	6	10	n.	U. S. Weather Bureau.
Epping	Williams	...	2	...	.....	...	...	...	...	...	0.31	.....	0.12	3.2	9	15	6	7	w.	J. C. Wilson.
Fullerton	Dickey	1,439	11	3.0	− 5.4	35	28	−33	19	38	1.61	+ 1.02	1.50	16.1	5	13	8	7	nw.	F. O. Alin.
Haley	Bowman	...	2	10.3	.....	41	1	−14†	18	29	0.70	.....	0.57	6.4	3	16	8	4	nw.	A. M. Oberchain.
Hettinger	Adams	2,253	3	3.6	.....	56	28	−28	18	34	0.80	.....	0.40	10.0	3	2	24	2	nw.	F. E. Ellickson.
Howard	Williams	2,275	3	−0.4	.....	38	28	−35	18	40	1.30	.....	0.70	13.0	4	10	13	5	nw.	C. P. Amsbaugh.

TABLE 1.—*Climatological data for February, 1910. District No. 6*—Continued.

Stations	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
North Dakota—Cont'd.																			
Jamestown	Stutsman	1,390	22	2.6	− 5.3	37	28	−31	18†	35	0.40	− 0.15	0.40	4.0	2	12	13	3	nw.	L. B. Baldwin.
Lamoine	Kidder		2	1.2	.....	42	28	−36	18	33	0.40	.....	0.20	4.0	2	18	3	7	nw.	E. V. Virgin.
Lamoure	Lamoure	1,307	3																	A. H. Ormsby
McHenry	Eddy	1,509	1	3.8	.....	46	6†	−31	18	46	0.07	.....	0.05	0.8	2	17	5	6	nw.	John Knox.
Manfred	Wells	1,605	8	4.9	.....	40	28	−31	18	36	0.45	.....	0.20	4.5	4	11	8	9	nw.	P. B. Anderson.
Marmarth	Bowman		2								0.77	.....	0.65	8.3	5	19	2	7	w.	S. P. Grane.
Marstonmoor	Stutsman		2	−4.4	.....	37	28	−45	18	33	0.55	.....	0.40	5.5	3	17	6	5	nw.	H. H. McCumber.
Medora	Billings	2,225	13	5.4	− 8.1	43a	27	−50	18	46a	1.50	+ 1.01	1.20	15.0	5	8	13	7	sw.	J. W. Hesser.
Melville	Foster	1,590	12	4.7	− 1.6	46	28	−27	18	37	0.40	+ 0.31	0.40	4.0	1	14	8	6	nw.	J. P. Kidder.
Mott	Hettinger		3	1.4	.....	41	27	−39	17	36	1.11	.....	0.31	15.0	7	14	4	10	nw.	O. H. Opland.
Napoleon	Logan	1,955	18	1.2	− 5.3	37	28	−36	18	33	0.50	+ 0.01	0.50	6.0	2	18	4	6	nw.	C. J. Hoof.
New England	Hettinger	2,400	14								1.40	+ 0.66	0.60	14.0	3					W. C. McKenzie.
New Salem	Morton	2,163	3	3.6	.....	44	1	−34	18	38	1.04	.....	0.60	10.3	5	16	8	4	nw.	J. Christianson.
Orange	Adams		3	3.6	.....	38	28	−33	18	40	1.10	.....	0.90	11.0	3	16	7	5	nw.	J. E. Goforth.
Palermo	Ward	2,230	6	6.0	.....	36	1	−22	21	25	0.67	.....	0.30	6.7	4	22	4	2	nw.	T. A. McCann.
Schafer	McKenzie		1	7.2	.....	43	28	−38	18	39	0.73	.....	0.25	1.3	5	15	6	7	w.	F. L. Clark.
Steele	Kidder	1,857	14	2.3	− 4.4	38	28	−34	18	32	0.40	− 0.11	0.30	4.0	3	16	6	6	nw.	B. C. Smith.
Swartwood	Bowman		2																	W. F. Adams.
Washburn	McLean	1,731	6	6.2	.....	40	28	−35	18	39	0.12	.....	0.10	1.3	2	13	10	5	w.	W. R. Peterson.
Williston	Williams	1,875	33	2.4	− 5.5	43	28	−40	18	35	0.34	− 0.13	0.26	3.4	4	8	15	5	w.	U. S. Weather Bureau.
Wishek	McIntosh	2,010	5	3.8	.....	35	1	−35	22	31	0.55	.....	0.40	5.5	2	15	9	4	nw.	H. E. Timm.
South Dakota.																				
Aberdeen	Brown	1,300	20	4.6	− 6.6	37	28	−29	17†	46	1.20	+ 0.30	0.60	12.0	5	21	2	5	nw.	D. G. Gallett.
Academy	Charles Mix		11	16.5	− 2.1	48	1	−14	22	34	0.18	− 0.34	0.15	2.4	2	17	7	4	nw.	I. T. Lothrop.
Alexandria	Hanson	1,352	21	9.6a	− 6.0	41a	1	−21a	19	35a	T.	− 0.66	T.	T.	0	15	12	1	nw.	W. S. Hill.
Ardmore	Fall River	3,557	1	.....	.....	.....	.....	.....	.....	.....	1.05	.....	0.60	5.5	4	18	6	4	.....	C. V. Glenn.
Armour	Douglas	1,521	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Bean.
Belle Fourche	Butte	3,000	2	15.1	.....	55	28	−25	22	46	0.23	.....	0.10	5.0	4	7	11	10	nw.	U. S. Reclamation Service.
Bowdle	Edmunds	1,995	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	0	8	nw.	Chas. Paul.
Brookings	Brookings	1,636	21	9.1b	− 4.6	38d	28	−21	17†	34d	0.40	− 0.12	0.20	4.0	3	9	17	2	sw.	Experiment Station.
Burke	Gregory		2	16.2a	.....	49a	28	−15a	22	38a	.....	.....	.....	.....	.....	16	8	4	.....	James Connell.
Canton	Lincoln	1,248	15	14.4	− 3.4	46	1	−21	17	42	0.30	− 0.19	0.30	3.0	1	22	3	3	nw.	John H. Holsey.
Cascade Springs	Fall River	3,422	2	20.8	.....	58	28	−12	20	45	0.53	.....	0.28	5.0	4	18	9	1	w.	Fred Noerenberg.
Castlewood	Hamlin	1,685	4	8.7	.....	38	1†	−23	23	35	0.10	.....	0.08	1.0	2	11	9	8	nw.	M. N. Bradley.
Centerville	Turner	1,229	13	13.5	.....	43	1†	−16	17†	37	0.22	− 0.63	0.15	2.2	3	2	6	20	nw.	Frank Williams.
Chamberlain	Brule	1,363	13	14.2	− 5.4	50	28	−18	16†	40	T.	− 0.37	T.	T.	0	15	6	7	nw.	G. A. Fry.
Clark	Clark	1,779	16	6.4	− 6.0	41	1	−26	23	35	0.47	− 0.05	0.20	4.7	6	14	10	4	nw.	O. H. LaCraft.
Clear Lake	Deuel	1,800	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. F. Hanley.
Cottonwood	Stanley		...	14.6	.....	52	27	−16	16	44	0.07	.....	0.03	0.7	3	12	14	2	nw.	Experiment Station.
Daviston	Perkins		...	7.0	.....	39	27†	−31	17	41	0.65	.....	0.30	6.5	3	14	11	3	nw.	G. G. Davis.
Deadwood	Lawrence	4,535	...	19.0	.....	54	25	−22	22	44	1.10	.....	0.70	11.0	4	20	4	4	.....	R. E. Grimshaw.
Deerfield	Pennington	6,000									0.06	.....	0.03	1.0	2	18	8	2	sw.	Frank E. Miller.
De Smet	Kingsbury	1,726	17	8.8	− 4.6	40	1	−25	18†	39	0.60	0.00	0.20	6.0	4	18	5	5	nw.	J. G. Purintun.
Dowling	Stanley	2,250	....	14.4	.....	51	28	−20	22	43	0.17	.....	0.12	1.7	2	7	13	8	nw.	M. P. Dowling.
Dumont	Lawrence	6,195									1.17	.....	0.30	8.5	8	16	8	4	nw.	A. B. Wood.
Elk Mountain	Custer	4,700									1.02	.....	0.48	3.5	3	17	8	3	nw.	James E. Blaine.
Elk Point	Union	1,127	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Hoffman, jr.
Ellingson	Perkins																			A. O. Knutson.
Englewood	Lawrence	5,723									0.53	.....	0.19	10.3	8	8	17	3	nw.	John B. Jolly.
Eureka	McPherson	1,884	1	5.6	.....	43	28	−29	18	34	1.70	.....	0.80	17.0	4	18	9	1	nw.	Experiment Station.
Faulkton	Faulk	1,595	15	7.0	− 6.4	41	28	−24	19†	32	0.48	− 0.05	0.43	4.8	2	21	2	5	w.	Miss Belle Talcott.
Flandreau	Moody	1,565	20	10.8	− 3.0	45	1	−21	23	31	0.50	− 0.08	0.30	5.0	2	18	7	3	n.	W. A. Harris.
Forestburg	Sanborn	1,231	18	8.8	− 5.9	43	1	−27	18	40	0.40	− 0.24	0.40	4.0	1	20	7	1	se.	S. S. Judy.
Fort Meade	Meade	3,624	28	20.4	− 1.0	60	28	−19	22	49	0.10	− 0.57	0.10	3.5	1	18	5	5	w.	Post Hospital.
Frederick	Brown	1,371	3																	J. E. Jeffers.
Gannvalley	Buffalo		12	11.1	− 5.5	41	1	−19	19	39	0.30	− 0.16	0.30	3.0	1	14	11	3	nw.	V. P. Drips.
Greenmount	Lawrence	6,430									2.08	.....	1.30	31.1	7	13	8	7	w.	Hugh V. Harlan.
Greenwood	Charles Mix		16	20.4	− 1.5	50	1	−12	23	34	0.08	− 0.49	0.05	0.8	2	17	8	3	nw.	T. C. Williamson.
Hardy Ranger Station	Lawrence	6,600									0.60	.....	0.18	11.0	5	19	4	5	nw.	Mrs. Mary E. Seals.
Harvey's Ranch	...do	6,282									0.57	.....	0.19	5.7	4	24	4	0	nw.	Jerome Harvey.
Hermosa	Custer	3,278	4	19.5a	.....	61a	25	−17a	22	61b	0.07	.....	0.05	0.7	2	13	13	2	.....	S. M. Booth.
Highmore	Hyde	1,890	14	6.6	− 7.3	40	28	−23	16†	36	0.19	− 0.05	0.13	2.4	3	12	7	9	nw.	Experiment Station.
Hill City	Pennington	5,067	...	.....	.....	.....	.....	.....	.....	.....	0.06	.....	0.04	1.0	2	20	7	1	w.	Geo. A. Karr.
Hopewell	Stanley			9.8	.....	42	28	−20	22	33	1.53	.....	1.53	4.0	2	14	9	5	nw.	E. R. Myers.
Howard	Miner	1,564	18	8.4b	−6.5	40b	1	−23b	16	38d	0.26	− 0.26	0.15	3.3	3	13	12	3	nw.	J. J. Cox.
Howell	Hand		8	5.8	.....	37	28	−29	19	37	0.38	.....	0.18	3.8	3	16	6	6	nw.	M. A. Shuster, jr.
Huron	Beadle	1,336	28	7.8	− 5.1	40	28	−20	19	36	0.23	− 0.21	0.15	2.4	3	16	6	6	nw.	U. S. Weather Bureau.
Ipswich	Edmunds	1,530	13	5.3	− 5.9	38	28	−27	19	29	1.15	+ 0.67	0.65	11.5	2	19	5	4	nw.	J. B. Taylor.
Kadoka	Stanley	2,467	....	15.9a	.....	52a	27	−16a	22	38a	0.06	.....	0.06	1.0	1	13	11	4	nw.	Rev. D. S. Brown.
Kennebec	Lyman	1,689	17	11.8a	− 5.4	45a	28	−22	19	43a	0.35	+ 0.01	0.10	3.5	4	18	5	5	nw.	R. C. Van Horn.
Kidder	Marshall	1,295	6	4.2	.....	40	28	−32	17†	38	0.89	.....	0.59	7.7	4	18	0	10	.....	H. C. Schussler.
Kimball	Brule	1,788	21	11.6	− 4.5	42	1	−20	16	37	0.49	− 0.09	0.20	7.0	3	22	4	2	nw.	G. D. Rose.
La Delle	Spink	1,403	13	6.4	− 6.8	42	1	−28	23	46	0.22	− 0.27	0.13	4.0	4	19	5	4	nw.	E. L. Ebbert.
Lead	Lawrence	5,200	....	19.0	.....	50	25	−26	22	46	0.43	.....	0.21	5.8	7	10	14	4	nw.	E. F. Irwin.
Lemmon	Perkins	2,345	1	5.8	.....	40	25	−30	22	43	1.30	.....	0.60	13.0	3	21	1	6	nw.	W. E. Lyman.
Leslie	Stanley		14	11.3a	− 7.4	48a	28	−20a	21	36a	T.	− 0.17	T.	T.	0	9	16	3	.....	P. G. Robinson.
Marion	Turner	1,447	9	12.9	.....	43	1†	−20	17	36	0.27	.....	0.11	2.5	3	16	8	4	nw.	M. H. Dains.
Marston	Sully		2	5.4	.....	40	28	−25	16†	35	0.28	.....	0.28	2.0	1	16	6	6	nw.	John S. Walker.
Mellette	Spink	1,300	15	7.6a	− 5.5	36	28	−26a	19†	37a	0.19	− 0.23	0.10	1.9	4	12	7	9	nw.	Frank A. Howe.
Menno	Hutchinson	1,325	13	13.0	− 4.5	44	1	−25	16	39	0.26	− 0.36	0.16	2.5	3	15	8	5	nw.	J. H. Swanton.
Milbank	Grant	1,148	19	10.0	− 2.5	41	28	−20	23	41	0.65	− 0.17	0.48	4.5	3	12	2	14	nw.	I. T. Patridge.
Mitchell	Davison	1,312	16	10.9	− 6.3	45	1	−21	19	36	0.07	− 0.51	0.05	3.0	2	21	6	1	nw.	C. W. Downey.
Murdo	Lyman	2,300	2	16.6	.....	48	25†	−18	22	40	0.20	.....	0.20	2.0	1	14	5	9	nw.	L. C. Bode.
Oelrichs	Fall River	3,339	18	22.7b	+ 1.6	58a	25	−12	22	41a	0.46	− 0.59	0.30	4.6	6	8	20	0	nw.	J. E. Strouse.
Orman	Butte	2,920	4	12.9d	.....	52d	28	−22d	22	46d	0.05	.....	0.05	0.5	1	.....	.....	.....	.....	U. S. Reclamation Service.
Ottumwa	Stanley		2	10.0a	.....	46a	28	−23a	16	40a	0.90	.....	0.50	9.0	3	19	2	7	nw.	J. W. Bretz.
Pierre	Hughes	1,572	18	12.0	− 4.9	49	28	−16	19	30	0.14	− 0.30	0.08	2.1	5	13	11	4	nw.	U. S. Weather Bureau.
Plankinton	Aurora	1,528	16	.....	.....	.....	.....	.....	.....	.....	0.25	− 0.31	0.11	2.5	3	18	2	8	nw.	W. G. Andrews.
Rapid City	Pennington	3,251	22	19.4	− 4.1	58	28	−17	22	44	0.14	− 0.32	0.07	1.4	4	12	13	3	w.	U. S. Weather Bureau.
Redfield	Spink	1,295	12	7.6	− 4.9	36	28	−18	19	30	0.20	− 0.21	0.20	2.0	1	22	1	5	nw.	A. S. Hall.
Rochford	Pennington	5,228									0.03	.....	0.03	0.8	1	18	8	2	nw.	Mrs. M. E. Deffenbaugh.
Rosebud	Meyer	2,600	16	20.4b	− 1.0	55b	28	−16b	22	46a	0.35	− 0.32	0.15	3.5	4	13	14	1	nw.	W. M. Ege.
Roslyn	Day		4	5.5	.....	35	28	−26	23	35	0.86	.....	0.40	9.2	8	16	8	4	nw.	O. O. Floren.
Savoy	Lawrence	4,500									0.57	.....	0.30	.....	6	12	14	2	.....	M. J. Hall.
Selby	Walworth		2	6.3a	.....	39a	28	−28a	18	30a	0.83	.....	0.83	3.5	2	21	0	7	nw.	Miss Gertrude Hall.
Sioux Falls	Minnehaha	1,400	19	12.8	− 2.8	44	1	−19	18	37	0.12	− 0.53	0.10	1.2	2	12	8	8	nw.	J. H. Bechtold.
Spearfish	Lawrence	3,647	20	20.3a	− 2.2	53a	28	−21a	22	44a	0.24	− 0.78	0.08	9.5	5	9	6	13	w.	O. A. Martin.

TABLE 1.—*Climatological data for February, 1910. District No. 6*—Continued.

Stations	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
South Dakota—Cont'd.																				
Stephan	Hyde	1,840	6	7.4	.....	44	28	−23	19	37	0.21	.....	0.10	2.0	3	12	9	7	nw.	Rev. A. Mattingly.
Tama	Meade	.....	1	6.0	.....	46	27	−30	17	40	0.22	.....	0.20	2.2	3	14	6	8	nw.	J. J. Daly.
Vale	Butte	2,765	2	12.0	.....	55	27	−25	17	43	0.17	.....	0.10	1.6	4	16	7	5	nw.	U. S. Reclamation Service.
Vermilion	Clay	1,222	9	18.2	.....	48	1	−13	23	38	0.25	.....	0.25	2.5	1	21	4	3	nw.	Prof. E. C. Perisho.
Water's Ranch	Lawrence	4,000	.....	.....	.....	.....	.....	.....	.....	.....	0.50	.....	0.20	9.9	4	13	8	7	sw.	George Waters.
Watertown	Codington	1,735	16	9.0	− 3.7	38	28	−21	23	32	0.40	− 0.18	0.40	4.0	2	17	3	8	nw.	Robert Q. Wood.
Wentworth	Lake	.....	17	10.0	− 3.7	42	1†	−21	23	36	0.24	− 0.27	0.18	2.4	2	21	4	3	nw.	R. C. Zimmerman.
Wessington Springs	Jerauld	1,410	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. N. Dunham.
White Lake	Aurora	1,646	.....	.....	.....	.....	.....	.....	.....	.....	0.30	.....	0.30	3.0	1	16	6	6	nw.	Mrs. G. A. Rogers.
Yankton	Yankton	1,234	36	17.0	− 1.2	47	1	−12	22	39	0.21	− 0.37	0.20	3.3	2	7	14	7	nw.	U. S. Weather Bureau.
Minnesota.																				
Pipestone	Pipestone	1,710	11	9.4	− 4.3	43	1	−20	23	33	0.05	− 0.43	0.03	0.4	2	15	11	2	nw.	W. S. Campbell.
Colorado.																				
Akron	Washington	4,650	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Ira M. Barnhouse.
Alma	Park	10,238	13	.....	.....	.....	.....	.....	.....	.....	0.55	.....	0.25	18.0	7	11	0	17	n.	F. H. Clark.
Arriba (near)	Lincoln	5,238	4	27.6	.....	68	1	− 5	9†	50	T.	.....	T.	T.	0	12	13	3	sw.	C. S. Graves.
Auldhurst	Teller	8,500	.....	.....	.....	.....	.....	.....	.....	.....	1.01	.....	0.78	11.0	5	11	13	4	s.	Mrs. Alice A. Auld.
Barker	Boulder	8,000	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Eastern Colo. Power Co.
Boreas	Park	11,489	.....	.....	.....	.....	.....	.....	.....	.....	1.21	.....	0.28	18.3	8	3	16	9	nw.	Frank Soper.
Boulder	Boulder	5,347	14	30.2	− 2.2	58	1†	− 9	17	43	1.39	+ 0.72	0.46	20.8	8	15	9	4	w.	S. A. Giffin.
Burlington	Kit Carson	4,160	6	29.2	.....	69	14	− 5	17	46	0.13	.....	0.07	3.5	3	19	5	4	nw.	C. Creglow.
Cassells	Park	8,445	.....	.....	.....	.....	.....	.....	.....	.....	0.27	.....	0.20	2.8	4	14	7	7	w.	Harriet M. Cassell.
Castle Rock	Douglas	6,220	18	26.4[a]	− 2.2	63	14	−17[a]	17	50[a]	0.40	− 0.34	0.20	4.0	2	.....	.....	.....	.....	Chas. Hy. Ellis.
Cheesman	Jefferson	6,890	7	26.8	.....	70	23	−25	17	63	1.10	.....	1.05	8.3	1	16	10	2	sw.	C. L. Adams.
Cheyenne Wells	Cheyenne	4,279	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Robertson.
Como	Park	9,785	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Edwin Pike.
Cope	Washington	.....	12	30.4	+ 2.2	70	14	− 4	19†	48	0.10	− 0.42	0.10	1.0	1	9	15	4	n.	A. A. Williams.
Corona	Grand	11,660	3	5.1	.....	30	14	−30	17†	35	4.42	.....	0.76	50.4	16	.....	.....	.....	w.	U. S. Weather Bureau.
Denver	Denver	5,272	38	30.2	− 0.9	67	14	− 5	17	46	0.35	− 0.14	0.15	7.2	7	14	12	2	sw.	Do.
Edgewater	Jefferson	5,450	2	30.8	.....	68	14	0	9	49	0.45	.....	0.18	8.7	4	15	8	5	.....	Dr. J. B. Fish.
Estes Park Fish Hatchery	Larimer	8,000	.....	.....	.....	.....	.....	.....	.....	.....	0.18	.....	0.05	9.0	5	4	10	14	w.	Gaylord H. Thomson.
Fort Collins	Larimer	4,985	31	26.5	− 0.1	66	14	−16	17	49	0.16	− 0.40	0.12	1.7	4	14	11	3	nw.	Colorado Agri. College.
Fort Morgan	Morgan	4,319	12	28.3	− 0.2	72	14	− 6	17	51	0.16	− 0.13	0.13	2.8	2	12	12	4	ne.	Della M. Scott.
Frances	Boulder	9,300	5	20.6	.....	43	14	− 9	16	32	1.01	.....	0.29	23.0	10	7	15	6	w.	D. A. Barry.
Fry's Ranch	Larimer	7,500	.....	25.3	.....	50	14†	−17	17	47	0.18	.....	0.04	4.0	5	17	8	3	w.	Norman W. Fry.
Georgetown	Clear Creek	8,550	9	.....	.....	.....	.....	.....	.....	.....	0.37	.....	0.12	5.0	8	12	8	8	.....	H. L. Corbett.
Greeley	Weld	4,649	18	30.3	+ 3.1	69	14	− 9	17	46	0.13	− 0.31	0.09	2.2	5	18	9	1	ne.	Nelson Reynolds.
Hartsel	Park	7,679	.....	.....	.....	.....	.....	.....	.....	.....	0.19	.....	0.14	5.9	4	20	3	5	.....	Emily Kleinknecht.
Hawthorne	Boulder	6,000	2	.....	.....	.....	.....	.....	.....	.....	0.60	.....	0.21	17.5	5	20	6	2	.....	B. E. Chesebro.
Holyoke (near)	Phillips	3,745	14	.....	.....	.....	.....	.....	.....	.....	0.03	− 0.39	0.03	0.8	1	20	4	4	w.	A. C. Cauble.
Idaho Springs	Clear Creek	7,534	10	26.4	− 4.3	51	24	−14	17	41	0.33	− 0.04	0.16	4.0	4	4	22	2	w.	J. J. Willis.
Kossler	Boulder	7,720	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Central Colo. Power Co.
La Porte	Larimer	5,053	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. A. Taft.
Le Roy (near)	Logan	4,380	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. Green.
Longmont	Boulder	4,980	8	31.2	.....	72	14	−15	17	52	0.12	.....	0.09	2.5	2	18	9	1	.....	Geo. W. Johnson.
Long's Peak (near)	Larimer	8,600	15	22.8	+ 0.4	60	14	−20	17	60	0.20	− 0.65	0.13	3.0	2	20	4	4	nw.	Enos A. Mills.
Moraine	do	7,775	20	22.8	− 1.5	47	14	−20	17	49	0.27	− 0.86	0.13	5.0	4	12	9	7	w.	J. D. Stead.
Platte Canyon	Jefferson	5,492	11	.....	.....	.....	.....	.....	.....	.....	0.20	− 0.36	0.11	4.7	3	16	8	4	e.	Denver Union Water Co.
St. Cloud	Larimer	7,750	7	.....	.....	.....	.....	.....	.....	.....	0.25	.....	0.14	2.5	3	9	11	8	nw.	Mrs. E. K. Bristol.
Sedgwick	Sedgwick	3,573	2	30.4	.....	73	14	− 7	22	55	0.02	.....	0.02	0.2	1	18	10	0	nw.	Dr. Edwin Lewis.
Sill Mine	Clear Creek	11,500	1	9.0	.....	30	14	−22	17	32	2.57	.....	0.45	27.0	16	14	0	14	nw.	Chas. F. Deininger.
Spicer (near)	Larimer	8,700	.....	.....	.....	.....	.....	.....	.....	.....	0.48	.....	0.12	7.7	8	9	9	10	sw.	Frank W. Murphy.
Sterling	Logan	3,892	.....	29.8	.....	71	14	− 6	22	54	0.10	.....	0.10	1.7	1	11	14	3	w.	Great Western Sugar Co.
Waterdale	Larimer	5,206	7	29.1	.....	65	13	−15	17	50	0.14	− 0.50	0.14	2.4	1	.....	.....	.....	.....	P. H. Boothroyd.
Westlake	Boulder	.....	2	.....	.....	.....	.....	.....	.....	.....	0.10	.....	0.04	6.0	4	13	12	3	.....	G. E. Richardson.
Wray	Yuma	3,512	14	30.0	+ 0.3	73	14	− 9	12	53	0.22	− 0.33	0.20	2.7	2	17	10	1	n.	J. C. Tuomey.
Yuma	Yuma	4,138	19	.....	.....	.....	.....	.....	.....	.....	0.04	− 0.70	0.04	0.4	1	11	6	11	se.	Geo. W. Custer.
Nebraska.																				
Ainsworth	Brown	2,521	5	20.6	.....	58	28	−15	15	40	T.	.....	T.	0.3	0	7	19	2	sw.	John M. Cotton.
Albion	Boone	1,747	12	23.0	0.0	59	1†	−11	23	48	0.05	− 0.69	0.05	0.5	1	9	12	7	n.	F. M. Weitzel.
Alliance	Boxbutte	3,968	15	25.2	+ 1.7	61	14	−13	22	46	T.	− 0.41	T.	T.	0	15	12	1	nw.	J. A. Keegan.
Alma	Harlan	1,939	13	27.9	+ 1.3	76	14	− 2	22	51	0.05	− 0.67	0.05	0.5	1	19	4	5	s.	W. A. Sharpnack
Anoka	Boyd	.....	4	16.8[a]	.....	50	28	−14	23	53	0.12	.....	0.12	2.0	1	7	20	1	nw.	W. Whitla.
Arcadia	Valley	2,186	11	.....	.....	.....	.....	.....	.....	.....	T.	− 0.66	T.	T.	0	11	15	2	nw.	Jas. L. Owen.
Ashland	Saunders	1,100	27	23.4	− 0.8	54	14	− 8	23	36	0.23	− 0.48	0.22	3.6	2	17	10	1	nw.	Dr. A. S. von Mansfelder.
Ashton	Sherman	2,061	17	.....	.....	.....	.....	.....	.....	.....	0.02	− 0.37	0.02	.....	1	19	5	4	sw.	F. Rein.
Atkinson	Holt	2,108	4	19.2	.....	54	27	−13	23	45	0.05	.....	0.04	.....	2	14	11	3	nw.	Chas. J. Wilson.
Auburn	Nemaha	1,051	18	26.1	+ 0.2	64	14	− 7	23	44	0.20	− 0.93	0.18	2.0	2	12	7	9	nw.	J. R. Huffman.
Aurora	Hamilton	1,792	15	26.0	+ 0.4	62	14	− 9	23	52	0.05	− 0.70	0.05	0.5	1	21	5	2	n.	Chi., Burl. & Quincy R. R.
Beatrice	Gage	1,235	19	26.8	+ 1.1	60	14	− 5	23	40	0.20	− 0.82	0.20	2.0	1	21	0	7	nw.	Wm. S. Waxham.
Beaver City	Furnas	2,147	19	30.2	+ 2.3	69	14	− 1	22	44	0.07	− 0.55	0.07	.....	1	12	12	4	se.	T. M. Davis.
Bellevue	Sarpy	1,210	28	24.0	.....	54	14	− 9	23	41	0.40	− 0.79	0.30	4.0	2	20	3	5	nw.	Prof. A. A. Tyler.
Benkelman	Dundy	2,968	13	.....	.....	.....	.....	.....	.....	.....	0.20	− 0.42	0.10	1.5	3	8	14	6	.....	R. D. Druliner.
Bertrand	Phelps	2,515	2	.....	.....	.....	.....	.....	.....	.....	0.05	.....	0.05	0.5	1	.....	.....	.....	.....	W. F. Dobbin.
Blair	Washington	1,122	15	22.7	+ 1.4	50	14†	−11	23	35	0.50	− 0.32	0.30	5.0	3	16	10	2	nw.	H. H. Hahn.
Bloomfield	Knox	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. Barnard.
Bradshaw	York	1,715	11	.....	.....	.....	.....	.....	.....	.....	0.10	− 0.72	0.10	1.0	1	20	6	2	.....	E. C. Roggy.
Bridgeport	Morrill	3,658	14	27.1	+ 3.1	71	14	− 9	22	51	T.	− 0.51	T.	T.	0	18	10	0	nw.	Robt. H. Willis.
Brokenbow	Custer	2,477	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chi., Burl. & Quincy R. R.
Burge	Cherry	2,674	4	21.4	.....	58	26	−13	22	44	T.	.....	T.	T.	0	17	8	3	nw.	H. A. Davis.
Cairo	Hall	1,951	1	.....	.....	.....	.....	.....	.....	.....	0.05	.....	0.05	0.5	1	.....	.....	.....	.....	Elliott Harrison.
Callaway	Custer	2,555	17	26.3	+ 1.8	67	14	− 7	22	61	0.00	− 0.57	0.00	0.0	0	17	4	7	nw.	J. H. Evans.
Cambridge	Furnas	2,258	3	28.8	.....	72	14	− 2	16	52	T.	.....	T.	T.	0	15	11	2	se.	Chas. Jensen.
Canton (near)	Sioux	.....	1	24.1[b]	.....	80	14	−11	16	51	0.19	.....	0.19	3.0	1	.....	.....	.....	w.	A. E. Hann.
Columbus	Platte	1,442	17	21.2	− 1.4	53	28	−10	23	42	0.06	− 0.60	0.06	1.0	1	13	7	8	nw.	C. C. Gray.
Cozad	Dawson	2,496	2	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	T.	0	20	5	3	nw.	A. A. Luttin.
Creighton	Knox	1,600	13	18.8	+ 0.3	47	28	−15	23	37	0.13	− 0.47	0.11	2.0	2	17	9	2	se.	E. S. Cowan.
Crete	Saline	1,368	27	25.2	+ 0.9	58	14	− 8	23	47	0.29	− 0.52	0.29	3.0	1	21	5	2	s.	Doane College.
Culbertson	Hitchcock	2,565	23	29.2	.....	58	24	−10	15†	48	0.05	− 0.52	0.05	0.5	1	8	1	19	nw.	J. H. Corrick.
Curtis	Frontier	2,553	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. S. R. Razee.
David City	Butler	1,619	21	22.6	+ 0.5	49	28	−10	23	35	0.52	− 0.37	0.40	5.0	2	14	10	4	sw.	S. Clingman.
Dawson	Richardson	945	17	25.5	− 0.9	64	14	− 7	23	46	T.	− 0.90	T.	T.	0	18	5	5	nw.	Mrs. E. I. Atkinson.
Dubois	Pawnee	1,074	5	.....	.....	.....	.....	.....	.....	.....	0.03	.....	0.02	.....	2	15	6	7	n.	O. M. Backus.
Edgar	Clay	1,722	16	.....	.....	.....	.....	.....	.....	.....	0.15	− 0.71	0.10	1.5	2	7	9	12	.....	Geo. W. Ferree.
Ellis	Gage	1,430	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Wood.
Elmcreek	Buffalo	2,268	2	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	E. L. Sutton.
Elsie	Perkins	3,382	2	.....	.....	.....	.....	.....	.....	.....	0.13	.....	0.10	.....	3	.....	.....	.....	.....	J. F. Brittain.

TABLE 1.—*Climatological data for February, 1910. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Nebraska—Cont'd.																				
Enderslake	Brown		1	20.9[4]		59	28	−13	22	41	0.00		0.00	0.0	0				nw.	G. W. Chappell.
Ewing	Holt	1,888	18	17.7		52	28	−13	23	47	0.10	− 0.50	0.05	1.0	2					G. H. Benson.
Fairbury	Jefferson	1,316	35	26.8	+ 0.7	70	14	− 5	23	41	0.15	− 0.68	0.15	1.5	1	15	9	4	se.	W. F. Cramb.
Fairmont	Fillmore	1,641	17	22.9	− 0.2	63	14	− 6	20†	42	0.15	− 0.65	0.15	1.5	1	19	2	7	nw.	Chi., Burl. & Quincy R. R.
Fort Robinson	Dawes	3,764	26	22.6	− 0.5	60	28	−16	20	57	0.24	− 0.29	0.10		3	18	3	7	n.	Post Hospital.
Franklin	Franklin	1,820	19	28.0	+ 1.8	70	14	− 5	17	47	T.	− 0.56	T.	0.0	0	23	3	2	n.	D. T. Shoemaker.
Fremont	Dodge	1,203	30	22.0	+ 0.3	52	28	−11	23	31	0.30	− 0.65	0.20	3.0	2	11	12	5	se.	Ernest Hahn.
Fullerton	Nance	1,629	8	22.8[b]		52[b]	14†	− 7[b]	23	36[b]	0.10		0.10	1.0	1				nw.	Dr. F. W. Johnson.
Geneva	Fillmore	1,633	20	25.6	+ 0.7	62	14	− 5	21†	40	0.30	− 0.75	0.30	3.0	1	15	6	7	se.	F. M. Flory.
Genoa	Nance	1,584	35	23.3	+ 0.8	52	28	− 8	23	43	0.15	− 0.62	0.10	1.5	2	13	12	3	n.	F. W. Parsons.
Gordon	Sheridan	3,550	8	17.6[b]		53[b]	28	−14[b]	22	39[b]	0.00		0.00	0.0	0				nw.	G. F. Williams.
Gosper	Gosper		8								T.		T.	T.	0	11	14	3	n.	E. H. Stoll.
Gothenburg	Dawson	2,557	16	28.0	+ 2.4	69	14	− 5	17†	55	T.	− 0.86	T.	T.	0	20	1	7	nw.	Dr. W. J. Bartholomew.
Grand Island	Hall	1,860	19	25.1	+ 0.4	64	14	− 4	17†	38	0.06	− 0.70	0.06		1	11	7	10	n.	E. A. Barnes.
Grant	Perkins	3,405	7	27.1[b]		66	14	− 8	22	57	0.10		0.10	1.0	1					Cyrus Carver.
Greeley	Greeley	2,121	15	21.6		54	12†	− 8	17†	39	0.09	− 0.47	0.07	1.0	2	21	7	0	nw.	W. E. Morgan.
Guidérock	Webster	1,646	10								0.30		0.15	3.0	2	14	10	4	n.	J. S. Marsh.
Haigler	Dundy	3,258	15								0.00	− 0.36	0.00	0.0	0	10	15	3		Chi., Burl. & Quincy R. R.
Haisey‖	Thomas	2,695	8	24.7		59	28	−10	22	45	T.		T.	0.0	0	12	11	5	nw.	U. S. Forest Service.
Hartington	Cedar	1,309	19	18.6	0.0	48	28	−16	23	37	0.15	− 0.83	0.10	1.5	2	11	10	7	nw.	D. E. Ewing.
Harvard	Clay	1,812	21	22.2	− 0.9	60	14	− 6	23	42	0.07	− 0.78	0.07	0.7	1	20	7	1	nw.	Dr. J. T. Fleming.
Hastings	Adams	1,932	20	24.2	− 0.5	65	14	− 7	23	48	0.40	− 0.67	0.40	4.0	1	19	5	4	se.	Chi., Burl. & Quincy R. R.
Hayes Center	Hayes		17	29.4[b]		71[b]	13	− 6[b]	22	52[b]	0.15	− 0.97	0.10	1.5	2	18	4	6	nw.	C. A. Ready.
Hays Springs	Sheridan	3,821	23	21.4	− 0.4	53	28	−14	22	46	0.05	− 0.65	0.05	0.5	1	12	15	1	nw.	A. Kadlecek.
Hebron	Thayer	1,458	25	26.0	− 0.2	65	14	− 3	23	37	0.27	− 0.44	0.16	3.0	2					Dr. C. M. Easton.
Hemingford	Boxbutte	4,256	1								0.19		0.12		5					A. S. Enyeart.
Hendley	Furnas	2,231	6								0.10		0.10	1.0	1					F. L. Jones.
Hillside	McPherson		1	25.9		60	13†	−10	17†	52	T.		T.	T.	0	14	10	4	nw.	Mrs. M. R. Lloyd.
Holdrege	Phelps	2,324	18	27.4	+ 0.6	78	14	− 4	22	54	0.07	− 0.83	0.05	0.7	2	19	0	9	nw.	Chi., Burl. & Quincy R. R.
Hooper‖	Dodge	1,228	13	21.7	+ 0.5	49	28	−11	22	34	0.15	− 0.73	0.15		1	9	10	9	nw.	W. Howard Heine.
Imperial	Chase	3,278	20	28.8	+ 1.5	71	14	− 5	22	50	0.10	− 0.62	0.10	1.0	1	8	14	6	nw.	Robt. Malcolm.
Kearney	Buffalo	2,146	20	27.9	+ 3.1	67	14	− 5	22	47	T.	− 0.83	T.	T.	0	17	8	3	nw.	N. C. Dunlap.
Kimball	Kimball	4,697	21	26.8	− 0.1	74	14	− 8	22	48	0.35	− 0.35	0.35	3.5	2	19	7	2	w.	F. J. Bellow.
Kirkwood	Rock		15	21.1	− 0.3	56	28	−18	23	43	0.25	− 0.37	0.10	2.5	3				nw.	Mrs. C. Arter.
Kowanda	Deuell		2								0.12		0.12		1					Geo. W. Hulse.
Lexington	Dawson	2,385	21	26.6	+ 1.0	67	14	− 6	22	53	0.00	− 0.86	0.00	0.0	0	24	0	4	nw.	Robt. Chadwick.
Lincoln	Lancaster	1,189	31	24.2	− 0.6	58	14	− 7	22	44	0.18	− 0.52	0.18	2.7	1	12	10	6	n.	U. S. Weather Bureau.
Loup	Sherman	2,067	16	24.8	+ 0.9	60	14	− 8	17†	45	T.	− 0.41	T.	T.	0	21	6	1	nw.	E. S. Hayhurst.
Loyal	Custer		2								0.00		0.00	0.0	0	20	5	3	n.	C. H. Cass.
McCook	Redwillow	2,506	15	29.2	+ 1.8	74	14	− 4	17	55	0.00	− 0.63	0.00	0.0	0	23	3	2	n.	C. G. Coglizer.
McCool Junction	York	1,575	12								T.	− 0.56	T.	T.	0					L. L. Slagle.
Madison	Madison	1,585	17	20.4	− 1.6	50	28	−12	23	35	0.30	− 0.52	0.20	3.0	2	15	4	9	sw.	Dr. F. A. Long.
Marquette	Hamilton	1,839	31								0.10	− 0.64	0.10	1.0	1					John Ellis.
Mason City	Custer	2,257	9																	J. A. Amsberry.
Minatare	Scottsbluff	3,825	1																	Anthony Kennedy.
Minden	Kearney	2,169	33	25.8	+ 1.4	66	14	− 5	22	44	0.04	− 1.04	0.04	0.6	1	15	11	2	s.	Joel Hull.
Mitchell	Scottsbluff		2	25.2		66	14	−11	17	57	0.06		0.02	0.6	4	11	17	0	n.	U. S. Reclamation Service.
Monroe	Platte	1,525	13																	Wm. Webster.
Morrill	Scottsbluff		1																	Edwin K. Wieland.
Nebraska City	Otoe	941	33	26.4	+ 2.2	60	14	−11	21	42	0.40	− 0.58	0.30	4.0	2	16	6	6	s.	Chi., Burl. & Quincy R. R.
Norfolk	Madison	1,532	27	18.9[b]	− 1.9	51[b]	1	−17[b]	23	36[b]	0.26	− 0.56	0.18	3.0	2				nw.	Dr. P. H. Salter.
North Loup	Valley	1,961	22	24.2	+ 0.8	58	1	− 7	17†	40	T.	− 0.61	T.	T.	0	14	12	2	n.	W. G. Rood.
North Platte	Lincoln	2,841	36	26.5	+ 1.9	67	14	− 6	22	49	0.02	− 0.38	0.02	0.3	1	17	8	3	nw.	U. S. Weather Bureau.
Oakdale	Antelope	1,722	23	17.6	− 1.9	50	28	−13	23	36	0.15	− 0.50	0.07	1.5	4	15	9	4	nw.	G. S. Clingman.
Odell	Gage	1,278	16																	Chi., Burl. & Quincy R. R.
Omaha	Douglas	1,103	40	22.7	− 1.0	51	14	− 8	22	41	0.28	− 0.48	0.18	3.0	2	12	9	7	s.	U. S. Weather Bureau.
Ord	Valley	2,062	16								0.05	− 0.55	0.05		1	14	8	6	n.	James Milford.
Orleans	Harlan	1,993	2								0.25		0.25	2.5	1					James McGeachin.
Osceola	Polk	1,644	12	22.8[b]		59[b]	14†	− 8[b]	23	39[b]	0.40	− 0.30	0.40	4.0	1				nw.	G. T. Ray.
Palisade	Hitchcock		1								0.00		0.00	0.0	0					E. E. Young.
Palmyra**§	Otoe	1,142	15	24.8	+ 1.3	58	14	− 8	22	....	0.30	− 0.48	0.30	3.0	1	13	14	1	n.	Thomas Coles.
Pawnee City	Pawnee	1,175	15	26.0		65	14	− 6	23	39	0.05	− 0.70	0.05	0.5	1	18	5	5	s.	Frank A. Barton.
Plymouth	Jefferson	1,419	6	23.5		65	14	− 8	23	44	0.10		0.10	1.0	1	12	11	5	n.	John Ruppel.
Purdum	Blaine		10	23.7		62	13†	−11	22	51	T.	− 1.04	T.	T.	0	22	2	4	nw.	T. C. Jackson.
Ravenna	Buffalo	2,028	33	25.8	+ 1.9	65	14	− 7	22	44	0.04	− 0.84	0.04	0.5	1	14	8	6	nw.	Erastus Smith.
Redcloud	Webster	1,987	18	28.5	+ 0.3	69	14	− 3	17	42	0.15	− 0.42	0.13	1.2	2	17	5	6	nw.	Chas. S. Ludlow.
St. Libory	Howard	1,887	15								0.10	− 0.71	0.10	1.0	1	20	7	1	nw.	W. I. Meader.
St. Paul	....do	1,796	16	25.3	− 0.3	61	14	− 5	22†	48	0.04	− 0.61	0.04	0.5	1	24	3	1	nw.	Paul Anderson.
Santee	Knox		22	19.2	− 0.1	49	28	−13	23	38	0.40	− 0.33	0.40	4.0	1	10	11	7	nw.	E. G. Kendall.
Sargent	Custer		13																	Jas. L. Ferguson.
Schuyler	Colfax	1,357	17	21.6		51	28	−12	23	36	0.38	− 0.42	0.22	4.0	2	11	15	2	n.	John T. Sumner.
Scottsbluff	Scottsbluff	3,888	4	29.4		71	14	− 7	22	50	0.16		0.14	1.8	2	15	11	2	nw.	A. B. McCoskey.
Seward	Seward	1,435	20	22.4	− 2.3	62	13	− 8	22	42	0.10	− 0.82	0.10	1.0	1	15	11	2	nw.	Chi., Burl. & Quincy R. R.
Sheridan	Wheeler		2								0.09		0.09		1	19	8	1	nw.	J. C. Harris.
Sidney	Cheyenne	4,093	18								0.30	− 0.34	0.20	1.8	2	24	4	0	n.	John P. Fischer.
Springview	Keyapaha		17	20.7	− 0.9	55	27†	−15	22	42	0.10	− 0.57	0.10	1.0	1	17	5	6	nw.	C. L. Phelps.
Stanton	Stanton	1,472	19	20.3	− 0.2	48	28	−15	23	36	0.30	− 0.50	0.20	3.0	3	14	13	1	sw.	Alfred Pont.
Stratton	Hitchcock	2,804	15								0.00	− 0.64	0.00	0.0	0					Miss Stella Vennum.
Superior	Nuckolls	1,574	25								0.05	− 0.74	0.05	0.5	1					F. V. Bishop.
Tablerock	Pawnee	1,023	22								0.11	− 1.03	0.09	1.5	2	18	6	4	nw.	E. D. Howe.
Tecumseh	Johnson	1,113	32								0.10	− 0.97	0.10	1.0	1	15	7	6		L. E. Pratt.
Tekamah	Burt	1,060	20	21.4	− 0.8	49	28	−12	23	32	0.45	− 0.57	0.15	4.5	3	12	10	6	nw.	Dr. A. D. Nesbit.
Turlington	Otoe	1,214	18	24.0	+ 0.2	58	14	− 9	23	40	0.65	− 0.41	0.60	6.5	2	15	9	4	nw.	Wm. N. Hunter.
University Farm‖	Lancaster		25	25.2		59	14	− 7	23	39	0.09	− 0.92	0.09		1	16	7	5		S. W. Perin.
Valentine	Cherry	2,613	22	19.9	− 1.3	57	22	−14	22	43	0.26	− 0.34	0.22	2.7	3	15	13	0	nw.	U. S. Weather Bureau.
Wahoo	Saunders	1,187	8								0.50	− 0.64	0.30	5.0	2	22	5	1	nw.	W. T. Mauck.
Wakefield	Dixon	1,387	16	19.8	+ 0.4	50	28	−17	23	34	0.25	− 0.60	0.15	2.5	2	13	12	3	nw.	I. H. Weaver.
Wallace	Lincoln	3,116	14								0.05	− 0.54	0.05	0.5	1					Chi., Burl. & Quincy R. R.
Walthill	Thurston		8																	H. L. Keefe.
Watertown	Buffalo	2,299	5								0.02		0.02	0.1	1	15	9	4	sw.	R. E. Swift.
Wauneta	Chase		11								0.00	− 0.68	0.00	0.0	0					C. D. Fuller.
Weepingwater	Cass	1,080	33	24.4		58	14	− 8	23	52	0.37	− 0.58	0.34	3.4	3	17	5	6	nw.	S. W. Orton.
Westpoint	Cuming	1,313	24	19.5[c]	− 2.3	49	14	−17	23	41	0.40	− 0.31	0.20	4.0	3	24	3	1	nw.	J. C. Elliott
Wilber	Saline	1,325	16								0.40	− 0.44		4.0	1	11	3	14	nw.	Chi., Burl. & Quincy R. R.
Wisner	Cumimg	1,380	14																	Hoff & Deily.
Woodlawn	Lancaster		5								0.25		0.22	1.2	2	13	10	5	nw.	H. C. Kendall.
York	York	1 606	21	25.3	+ 0.3	66	14	− 6	21†	36	0.30	− 0.49	0.30	3.0	1	19	8	1	nw.	A. T. Giauque.

TABLE 1.—*Climatological data for February, 1910. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Iowa.																				
Afton‡	Union	1,212	16	21.2	− 0.8	57	14	−12	23	37	0.70	− 0.25	0.50	7.0	2	10	10	8	nw.	N. W. Rowell.
Allerton‡	Wayne	1,513	8	23.2	+ 1.5	56	14	−10	23	32	0.46	− 0.88	0.25	3.6	3	18	4	6	nw.	Mrs. Geo. Shriver.
Alton	Sioux	1,335	5	14.6	.....	42	1	−15	17	32	0.15	.....	0.10	1.5	2	19	5	4	nw.	W. S. Slagle.
Atlantic	Cass	1,164	19	20.5	− 0.3	53	14	−12	23	32	0.28	− 0.77	0.15	3.5	2	10	7	11	nw.	Thos. H. Whitney.
Audubon‡	Audubon	1,301	16	19.5	+ 0.4	43	14	−12	23	33	1.08	+ 0.29	0.80	10.8	3	15	4	9	nw.	Geo. E. Kellogg.
Bedford‡	Taylor	.....	10	23.4	+ 2.7	56	14	−11	23	35	0.36	− 0.68	0.20	2.5	5	16	4	8	nw.	E. E. Healy.
Centerville	Appanoose	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.58	.....	0.36	3.5	2	21	2	5	w.	Gordon Peacock, jr.
Charlton‡	Lucas	1,042	15	22.0	− 0.2	55	14	−12	23	34	0.67	− 0.36	0.25	7.0	3	16	0	12	nw.	C. C. Burr.
Clarinda	Page	1,009	20	21.5	− 1.1	57	14	−10	23	48	0.27	− 0.73	0.20	2.8	3	14	10	4	s.	A. S. Van Sandt.
Corning‡	Adams	1,117	18	20.0	− 1.9	45	1	−12	23	31	0.50	− 0.38	0.40	5.0	2	17	5	6	nw.	Jerome Smith.
Corydon‡	Wayne	1,101	17	21.5[a]	− 0.7	53	14	−11[a]	23	32[a]	0.41	− 0.91	0.24	3.0	3	.....	.....	.....	.....	Clara Miller.
Creston	Union	1,312	5	31.1[a]	.....	48[a]	1	−12	23	37[a]	0.60	.....	0.45	6.0	3	17	3	8	nw.	Edgar Stovall.
Cumberland	Cass	.....	10	.....	.....	.....	.....	.....	.....	.....	0.60	− 0.30	0.40	6.0	2	20	3	5	nw.	J. H. Reppert.
Denison	Crawford	1,180	16	18.2[b]	− 0.9	45[b]	28	−14[b]	23	31[b]	0.32	− 0.54	0.20	3.2	3	19	6	3	n.	W. C. Van Ness.
Elliott	Montgomery	.....	5	12.2	.....	52	14	−11	23	31	0.55	.....	0.35	5.5	2	11	14	3	nw.	Henry Barnes.
Greenfield	Adair	.....	17	18.9	− 1.7	46	14	−13	23	33	0.44	− 0.57	0.25	3.8	2	12	14	2	nw.	R. B. Oldham.
Hancock	Pottawattamie	1,113	5	19.7	.....	45	14	−12	23	39	0.21	.....	0.21	2.1	1	17	7	4	nw.	G. C. Rogers.
Harlan‡	Shelby	1,192	11	18.4	+ 0.3	45	14	−14	23	29	0.29	− 0.56	0.21	4.5	3	9	11	8	nw.	C. A. Reynolds.
Hopeville	Clarke	.....	19	21.4	− 0.6	54	14	−12	23	32	0.39	− 0.40	0.25	.....	3	10	10	8	nw.	M. T. Ashley.
Inwood‡	Lyon	1,474	6	10.6[a]	.....	43	1	−21[b]	17	41[b]	0.02	.....	0.02	0.2	1	16	6	6	nw.	F. B. Hanson.
Lamoni	Decatur	.....	3	22.5	.....	53	14	−10	23	32	0.29	.....	0.16	2.0	3	18	0	10	nw.	T. J. Fitzpatrick.
Larrabee	Cherokee	1,266	20	13.7[c]	− 4.1	42[c]	1	−15[c]	17†	47[c]	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. B. Strever.
Le Mars‡	Plymouth	1,224	14	15.9	− 0.6	41	28	−13	23	30	0.13	− 0.59	0.07	.....	2	12	14	2	nw.	G. A. C. Clarke.
Lenox‡	Taylor	1,250	15	21.8	+ 0.1	49	14	−12	23	32	0.30	− 0.54	0.20	3.0	2	18	3	7	nw.	J. L. Hurley.
Leon	Decatur	1,120	8	22.4	+ 0.5	52	14	−12	23	30	0.80	− 0.34	0.50	5.0	2	11	8	9	nw.	Morris Gardner.
Little Sioux‡	Harrison	.....	5	21.4	.....	50	1	−17	23	35	0.30	.....	0.15	3.0	3	17	5	6	nw.	Geo. H. Gibson.
Logan‡	...do	928	43	20.8[a]	− 2.6	48[a]	28	−12	23	32[a]	0.21	− 0.99	0.10	.....	3	11	15	2	nw.	Glenn H. Stern.
Massena‡	Cass	.....	4	20.2	.....	50	14	−13	23	39	0.70	.....	0.50	7.0	2	16	3	9	nw.	C. E. Smeltzer.
Mount Ayr‡	Ringgold	1,236	17	22.9	+ 0.4	56	14	−10	23	33	0.62	− 0.55	0.20	4.1	4	15	3	10	nw.	A. F. Beard.
Odebolt‡	Sac	1,356	13	17.9	− 0.5	44	28	−12	23	29	0.32	− 0.55	0.14	3.5	3	18	7	3	.....	E. Starner.
Onawa‡	Monona	1,051	10	21.6	+ 0.6	45	1†	−10	23	32	0.40	− 0.59	0.25	4.0	3	17	5	6	nw.	C. G. Perkins.
Pacific Junction‡	Mills	960	11	21.8	+ 2.2	51	14†	− 9	21†	34	0.43	− 0.17	0.33	4.3	2	8	18	2	n.	H. H. McCartney.
Rock Rapids‡	Lyon	1,358	11	12.6	− 4.0	42	26†	−18	18	34	0.10	− 0.26	0.05	1.0	2	.....	.....	.....	n.	W. C. Wyckoff.
Sheldon‡	O'Brien	1,422	10	12.8	− 2.9	42	1	−17	17	32	0.30	− 0.63	0.20	1.0	2	17	6	5	nw.	Dr. A. W. Beach.
Sibley	Osceola	1,212	17	10.0	− 5.0	42	1	−18	18	44	T.	− 0.47	T.	T.	0	13	8	7	nw.	H. G. Doolittle.
Sioux Center‡	Sioux	.....	11	12.8	− 3.6	39	28	−15	23†	37	0.20	− 0.50	0.10	2.0	2	13	4	11	nw.	J. de Ruyter.
Sioux City	Woodbury	1,135	21	17.4	− 2.4	46	28	−11	22	32	0.22	− 0.33	0.15	2.2	3	10	10	8	nw.	U. S. Weather Bureau.
Thurman‡	Fremont	.....	13	22.7	+ 1.2	54	14	− 8	21†	40	0.12	− 1.21	0.10	.....	2	9	11	8	nw.	C. R. Paul.
Washta‡	Cherokee	1,157	12	16.4	.....	48	1	−16	21	38	0.25	− 0.51	0.20	2.5	2	14	9	5	nw.	H. L. Felter.
Woodburn‡	Clarke	961	11	21.8	.....	55	14	−14	23	37	1.00	− 0.24	0.55	9.5	3	12	5	11	nw.	C. B. McDonough.
Kansas.																				
Abilene	Dickinson	1,157	15	.....	.....	.....	.....	.....	.....	.....	0.18	− 0.92	0.14	T.	2	10	10	8	se.	I. H. Sherman.
Agricultural College	Riley	1,102	52	29.0	− 0.9	64	14	− 1	23	36	0.30	− 0.83	0.30	T.	1	16	7	5	n.	Prof. J. O. Hamilton.
Alton	Osborne	1,651	8	30.0	.....	72	14	1	17†	45	T.	− 0.91	T.	T.	0	14	9	5	n.	H. A. Storer.
Atchison	Atchison	973	19	27.8	+ 0.6	61	14	− 4	23	39	0.85	− 0.41	0.50	0.2	3	15	3	10	n.	M. F. Troxell.
Baker	Brown	1,182	10	24.9	.....	63	14	− 7	23	45	0.40	.....	0.40	T.	1	12	0	16	n.	E. A. Bastien.
Beloit	Mitchell	1,383	15	.....	.....	.....	.....	.....	.....	.....	T.	− 0.84	T.	T.	0	13	6	9	se.	W. H. Houghton.
Blakeman	Rawlins	2,894	13	29.1	.....	76	14	− 7	17	56	0.22	− 0.46	0.15	5.5	4	20	6	2	nw.	C. L. Henderson.
Blue Rapids	Marshall	1,105	4	.....	.....	.....	.....	.....	.....	.....	0.06	.....	0.06	.....	1	16	3	9	.....	M. Norton.
Centralia	Nemaha	1,256	1	25.6	.....	65	14	− 5	23	38	0.13	.....	0.12	0.1	2	16	5	7	nw.	L. E. Hazen.
Chapman	Dickinson	1,123	6	28.6	.....	59	14	− 1	23	31	0.25	.....	0.25	T.	1	17	7	4	n.	R. McShea.
Clay Center	Clay	1,203	9	28.6	.....	66	14	− 4	23	40	T.	.....	T.	T.	0	15	2	11	s.	O. L. Slade.
Colby	Thomas	3,138	19	30.0	+ 3.4	74	14	− 3	17	43	0.17	− 0.37	0.10	4.0	2	18	5	5	n.	R. M. Chelf.
Concordia	Cloud	1,398	26	28.0	− 0.8	65	14	− 1	23	43	0.02	− 0.73	0.02	0.2	1	9	13	6	n.	U. S. Weather Bureau.
Densmore	Norton	2,200	1	28.0[a]	.....	76[a]	14	− 4[a]	17	47[a]	0.13	.....	0.10	1.2	2	16	8	4	sw.	F. S. Griffith.
Dresden	Decatur	2,731	16	30.7	+ 3.6	73	14	− 3	17	45	0.18	− 0.71	0.10	1.8	2	13	10	5	nw.	Jacob Back.
Ellsworth	Ellsworth	1,537	6	29.6	.....	70	14	− 2	23	45	0.34	.....	0.24	1.0	3	15	10	3	s.	Geo. Seitz.
Enterprise	Dickinson	1,144	8	28.4[b]	.....	62[b]	28	0	23	39[b]	0.13	− 0.97	0.13	0.0	1	13	3	10	s.	C. F. Wagner.
Eskridge	Wabaunsee	1,412	4	28.1	.....	65	14	− 2	23	38	1.00	.....	0.80	1.5	3	14	7	7	s.	Geo. D. West.
Farnsworth	Lane	2,850	9	31.2	.....	76	14	− 4	17	48	0.16	.....	0.11	T.	3	11	16	1	s.	C. M. Jennison.
Ft. Scott	Bourbon	857	35	30.5	− 2.0	68	1	3	23	38	1.03	− 0.93	0.30	6.5	7	17	1	10	nw.	E. A. Shaver.
Frankfort	Marshall	1,146	16	28.4	+ 1.2	67	14	− 4	23	46	T.	− 1.25	T.	T.	0	11	15	2	ne.	E. C. Dunham.
Garnett	Anderson	950	4	29.4[a]	.....	66[a]	1	0[a]	23	32[a]	0.83	.....	0.42	2.5	3	14	8	5	n.	D. D. Judy.
Goodland	Sherman	3,687	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. L. Calvert.
Gove**	Gove	2,750	21	31.0	+ 2.1	70	14	0	22	....	0.40	− 0.29	0.20	4.0	3	14	12	2	nw.	Jesse Royer.
Hanover	Washington	1,225	13	28.2	.....	68	14	− 4	23	36	0.05	− 0.91	0.05	0.3	1	16	6	6	n.	August Jaedicke, jr.
Harrison	Jewell	1,804	9	27.0	.....	68	14	− 4	23	40	0.13	.....	0.09	1.0	2	21	4	3	n.	Mahlon Tegley.
Hays	Ellis	2,000	42	29.2	+ 1.1	71	14	− 2	17	46	0.26	− 0.59	0.26	2.8	1	13	12	3	se.	G. K. Helder.
Hill City	Graham	2,134	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	I. R. Mort.
Horton	Brown	1,188	21	25.4	− 1.9	58	14	− 4	23	30	0.40	− 0.77	0.32	1.0	2	15	5	8	nw.	Mrs. S. C. Belden.
Hoxie	Sheridan	2,700	12	29.8[a]	+ 1.2	74[a]	14	− 4[a]	17	48[a]	0.30	− 0.47	0.15	4.0	2	19	5	4	nw.	C. T. Dallam.
Jewell	Jewell	1,540	5	29.0	.....	64	14	− 2	23	31	.....	.....	.....	.....	.....	21	1	6	n.	C. A. Shinn.
Lawrence	Douglas	907	42	28.2	− 1.9	64	14	− 2	23	42	1.41	− 0.12	0.70	2.2	4	11	12	5	n.	Prof. H. P. Cady.
Lebanon	Smith	1,812	12	27.8	.....	64	14	− 1	23†	34	T.	− 0.73	T.	T.	0	20	3	5	n.	Earl V. Bower.
Lindsborg	McPherson	1,333	4	.....	.....	.....	.....	.....	.....	.....	0.15	.....	0.15	.....	1	17	0	11	n.	J. R. Lynch.
Mankato	Jewell	1,784	1	28.1	.....	68	14	− 4	23	44	0.10	.....	0.10	1.0	1	19	1	8	s.	R. M. Cauthorn.
Minneapolis	Ottawa	1,259	20	29.2[a]	+ 1.2	61[a]	14	0[a]	23	34[a]	0.04	− 0.76	0.04	T.	1	19	4	5	s.	J. L. Steele.
Moran	Allen	1,098	14	30.4	+ 0.6	67	1	3	23	45	1.41	− 0.14	0.40	8.5	5	18	1	9	nw.	C. J. Norton.
Matoma	Osborne	1,834	1	.....	.....	.....	.....	.....	.....	.....	0.30	.....	0.20	3.0	2	17	7	4	w.	C. O. Hunt.
Norton	Norton	2,284	12	29.3	+ 1.9	73	14	− 4	17	45	T.	− 0.71	T.	T.	0	19	5	4	s.	Sim Sieffel.
Oberlin	Decatur	2,539	23	.....	.....	.....	.....	.....	.....	.....	0.14	− 0.72	0.10	1.8	2	19	6	3	nw.	I. K. Huber.
Oketo‡	Marshall	1,194	2	26.6[b]	.....	62[b]	1†	− 6[b]	23	33[b]	0.02	.....	0.02	T.	1	0	13	6	sw.	J. A. Church
Olathe	Johnson	1,032	15	28.4	− 1.2	63	14	− 2	23	34	0.91	− 0.63	0.37	2.5	6	14	4	10	nw.	Dr. S. B. S. Wilson.
Osage City	Osage	1,081	11	29.5[b]	.....	64[b]	14	− 1[b]	23	34[b]	1.05	− 0.26	0.71	2.9	3	14	3	9	n.	W. C. White.
Ottawa	Franklin	926	16	28.3	.....	65	1†	− 1	23	43	0.72	− 0.81	0.31	2.6	5	16	3	9	nw.	Dr. W. J. Newton.
Phillipsburg	Phillips	1,939	19	30.1	+ 3.1	72	14	0	17†	44	0.15	− 0.70	0.10	1.5	2	18	8	2	nw.	N. E. Bailey.
Plainville	Rooks	2,156	5	.....	.....	.....	.....	.....	.....	.....	0.30	.....	0.20	3.0	2	20	5	3	nw.	John Pedroja.
Pleasanton	Linn	862	8	30.0	.....	63	1†	0	18†	35	1.23	.....	0.44	6.0	5	16	2	10	n.	B. F. Blaker.
Republic	Republic	1,495	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Grafton Nutter.
Russell	Russell	1,834	11	29.1	− 1.6	70	14	− 2	23	42	0.12	− 0.56	0.12	2.0	1	17	6	5	n.	Robert Brebner.
St. Francis	Cheyenne	3,288	2	31.1	.....	74	14	− 6	17	52	0.05	.....	0.03	1.0	2	10	15	3	nw.	J. E. Uplinger.
Salina	Saline	1,227	26	29.4	+ 0.9	61	14	1	23	36	0.16	− 0.65	0.11	T.	2	13	12	3	n.	Prof. A. W. Jones.
Scott	Scott	2,971	4	31.1	.....	71	25	− 4	17	52	0.14	.....	0.11	2.5	2	18	6	4	s.	J. P. Loughran.
Smith Center	Smith	1,800	.....	.....	.....	.....	.....	.....	.....	.....	0.05	.....	0.05	0.5	1	21	4	3	n.	W. H. Nelson.
Topeka	Shawnee	997	24	28.2	− 1.8	64	14	− 2	23	48	0.87	− 0.51	0.51	0.4	4	17	2	9	s.	U. S. Weather Bureau.
Valley Falls	Jefferson	913	11	27.9	− 0.3	63	14	− 3	23	34	0.70	− 0.71	0.32	0.6	4	17	4	7	nw.	Miss Nettie Maxwell.
Vinland‡	Douglas	880	1	28.9	.....	63	1†	− 3	23	34	0.96	.....	0.51	2.6	4	15	4	9	n.	A. Schick.

TABLE 1.—*Climatological data for February, 1910. District No. 6*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Kansas—Cont'd.																				
Wakeeney	Trego	2,456	27	30.2	+ 0.6	72	14	− 2	23	42	0.15	− 0.68	0.15	2.0	1	23	2	3	s.	A. S. Peacock.
Wallace	Wallace	3,303	40	31.3	.....	76	14	− 8	17	56	T.	− 0.45	T.	T.	0	4	19	5	nw.	M. T. Griggs.
Wamego	Pottawatomie	1,002	17	.....	.....	.....	.....	.....	.....	.....	0.35	− 0.95	0.30	T.	2	15	4	9	n.	M. L. Stone.
Missouri.																				
Amoret	Bates	850	1	30.2	.....	65	1	1	23	36	0.95	.....	0.37	5.8	4	12	6	10	n.	Darby Fruit Farm.
Appleton City	St. Clair	853	20	.....	.....	.....	.....	.....	.....	.....	1.98	− 0.27	0.70	19.0	6	10	11	7	n.	T. C. Brown.
Arlington	Phelps	695	20	.....	.....	.....	.....	.....	.....	.....	5.18	+ 3.17	1.70	18.8	6	12	4	12	se.	P. W. Andres.
Arthur	Vernon	767	18	31.0	+ 0.8	71	1	− 4	18	45	1.50	− 0.27	0.40	9.0	6	14	5	9	se.	J. T. Armstrong.
Avalon	Livingston	.....	25	27.2	+ 0.5	59	14	− 6	23	32	0.80	− 1.49	0.50	0.5	2	17	5	6	nw.	F. G. Ashbaugh.
Bagnell	Miller	594	15	.....	.....	.....	.....	.....	.....	.....	2.60	.....	0.90	12.0	5	13	3	12	w.	W. S. Brockman.
Bethany	Harrison	881	20	24.8	− 0.8	61	14†	− 8	23	38	0.86	− 0.54	0.76	1.0	2	17	3	8	nw.	W. H. Skinner.
Bolivar	Polk	1,070	22	30.2	− 3.2	68	15	−15	18	41	2.19	− 0.16	1.00	17.0	7	13	6	9	nw.	E. Waltz.
Boonville	Cooper	600	34	.....	.....	.....	.....	.....	.....	.....	1.72	− 1.00	0.26	4.1	8	10	5	13	sw.	C. Randecker.
Brunswick	Chariton	652	32	27.8	− 0.6	59	14†	− 2	23	40	1.27	− 0.69	0.80	1.8	5	11	4	13	n.	Louis Benecke.
Clinton	Henry	800	24	30.8	.....	60	1†	1	18	32	1.36	− 0.63	0.51	9.0	5	15	6	7	s.	Dr. G. W. Menees.
Columbia	Boone	784	21	27.4	− 2.7	63	15	− 2	18	46	1.09	− 1.04	0.29	7.4	8	13	7	8	se.	U. S. Weather Bureau.
Conception	Nodaway	982	26	25.2	− 0.9	57	14	− 7	23	41	0.42	− 0.68	0.27	1.5	3	15	5	8	sw.	Fr. Adhelm Hess.
Darksville	Randolph	826	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Broaddus.
El Dorado Springs	Cedar	750	5	32.3	.....	68	1	−12	18	50	2.76	.....	0.80	19.0	8	13	5	10	nw.	Samuel Graham.
Fairport	De Kalb	920	16	.....	.....	.....	.....	.....	.....	.....	0.67	− 0.67	0.60	0.7	4	12	5	11	nw.	J. W. Lincoln.
Fayette	Howard	725	27	27.2	− 2.0	61	15	− 2	23	45	0.60	− 1.51	0.27	4.0	7	11	9	8	.....	Prof. T. Berry Smith.
Fulton	Callaway	818	19	29.6	+ 0.2	64	15	−16	18	45	1.22	− 0.90	0.51	6.7	8	8	13	7	se.[a]	Dr. J. L. Brenneman.
Gallatin	Daviess	803	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. P. Young.
Glasgow	Howard	618	33	.....	.....	.....	.....	.....	.....	.....	0.77	− 1.53	0.29	5.0	6	10	9	9	se.	J. J. Shaughnessy.
Grant City	Worth	1,130	18	24.4	.....	57	14	− 9	23	33	0.50	− 0.55	0.25	2.5	3	18	1	9	nw.	W. H. Campbell.
Harrisonville	Cass	912	38	27.0	− 2.5	63	1	− 1	23†	47	0.70	− 1.40	0.39	2.5	5	11	5	12	sw.	A. J. Sharp.
Hazelhurst	Livingston	.....	17	.....	.....	.....	.....	.....	.....	.....	1.01	.....	0.52	0.5	4	.....	.....	.....	.....	W. H. Baker.
Hermann	Gasconade	482	36	.....	.....	.....	.....	.....	.....	.....	1.84	− 0.67	0.66	16.0	10	7	6	15	s.	C. T. Maushund.
Houston	Texas	1,280	18	30.8	− 2.6	65	15	−15	18	38	3.68	+ 1.31	1.50	21.0	6	9	10	9	s.	E. Dempsey.
Huntsville	Randolph	790	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. H. Hammett.
Jefferson City	Cole	628	29	25.6	− 5.5	65	15	− 9	18	52	0.93	− 1.35	0.25	14.6	7	15	1	12	w.	Miss Emma Swift.
Kansas City	Jackson	963	21	28.2	− 1.7	64	14	− 5	23	46	0.79	− 0.71	0.37	1.5	6	13	5	10	n.	U. S. Weather Bureau.
Kidder	Caldwell	1,017	20	26.8	+ 0.7	60	14	− 4	23	34	1.11	− 0.34	0.77	0.5	4	14	6	8	sw.	J. F. Sharp.
Lamonte	Pettis	863	22	28.8	.....	61	1	0	18†	38	1.29	− 0.77	0.46	6.5	8	15	6	7	nw.	J. R. Wade.
Lebanon	Laclede	1,265	22	30.9	− 2.9	61	15	− 5	18	38	2.95	+ 0.39	1.10	16.0	6	12	7	9	s.	M. W. Serl.
Lexington	Lafayette	813	27	28.5	− 0.1	59	1	− 3	23	35	0.92	− 1.13	0.42	1.5	7	18	0	10	s.	J. W. Keithley.
Liberty	Clay	864	22	29.5	+ 0.7	62	1	− 4	23	37	0.41	− 1.29	0.34	T.	2	16	5	7	s.	W. C. Wilmott.
Lockwood	Dade	1,088	16	31.2	.....	65	1	− 5	18	34	1.82	− 0.22	0.73	14.5	6	16	1	11	ne.	C. S. Crow.
Marshall	Saline	779	20	28.6	+ 0.2	60	15	2	23	34	0.75	− 1.25	0.53	7.8	6	20	3	5	nw.	Dr. W. H. Black.
Marshfield	Webster	1,492	2	32.6[f]	.....	62[f]	1†	−17[f]	18	48[f]	1.38[f]	.....	0.80[f]	10.0[f]	3[f]	7[f]	5[f]	10[f]	se.[f]	Dr. J. P. Keller.
Maryville	Nodaway	1,160	20	21.3	− 1.3	56	14	− 9	23	42	0.07	− 1.27	0.05	0.5	2	18	2	8	n.	J. R. Brink.
Mount Vernon	Lawrence	1,480	34	32.1	− 1.1	66	1	−15	18	43	2.76	− 0.08	1.10	15.0	6	8	12	8	nw.	Dr. O. H. Brown.
Nevada	Vernon	860	16	.....	.....	.....	.....	.....	.....	.....	2.77	+ 0.90	0.92	14.5	7	15	3	10	nw.	C. Jewell.
New Palestine	Cooper	795	18	33.9	+ 1.5	66	15	3	23	41	2.19	+ 0.87	1.30	6.7	8	16	8	4	nw.	A. I. Zeigle.
Oregon	Holt	1,113	55	24.5	− 3.5	56	14	−10	23	41	0.34	− 1.35	0.26	0.5	3	16	5	7	nw.	Tom Curry.
Osceola	St. Clair	738	11	.....	.....	.....	.....	.....	.....	.....	1.95	− 0.12	0.60	10.0	6	14	3	11	nw.	W. E. Matthews.
Rolla	Phelps	1,092	29	30.7	.....	65	15	− 5	18	39	3.28	+ 0.90	0.74	19.9	9	13	5	10	sw.	Prof. P. J. Wilkins.
St. Charles	St. Charles	614	32	30.6	− 1.0	64	15	−12	18	36	3.29	+ 0.31	1.08	18.0	7	9	8	11	s.	L. C. Saeger.
St. Joseph	Buchanan	825	39	26.4	.....	60	1	− 5	23	46	0.50	− 0.68	0.34	0.4	4	13	7	8	se.	U. S. Weather Bureau.
St. Louis	.....	567	39	29.2	− 4.3	65	15	− 1	23	35	3.22	+ 0.57	1.14	21.3	12	10	7	11	s.	U. S. Weather Bureau.
Sublett	Adair	1,000	30	25.4	+ 1.3	57	14†	− 7	23	32	0.20	− 1.81	0.10	2.0	2	13	6	9	nw.	Lewis Spriggs.
Trenton	Grundy	812	15	26.0	− 1.1	55	14	− 6	23	30	1.12	− 0.24	0.62	0.2	4	17	2	9	nw.	J. H. Flesher.
Unionville	Putnam	1,072	17	23.0	− 1.0	58	14	−11	23	44	0.79	− 0.95	0.30	4.0	4	14	4	10	s.	Geo. W. Davis.
Warrensburg	Johnson	883	32	30.5	− 0.3	63	1	0	23	36	0.82	− 1.27	0.27	2.9	8	16	3	9	nw.	A. F. Smithson.
Warrenton	Warren	865	20	26.4	− 3.1	56	15	− 3	18†	39	2.42	− 0.13	0.69	16.0	10	7	8	3	s.	Dr. John H. Frick.
Warsaw	Benton	700	6	33.5	.....	72	1†	−13	18	48	2.46	.....	0.85	16.0	8	11	11	6	ne.	Dr. J. R. Smith.
Wheatland	Hickory	920	18	.....	.....	.....	.....	.....	.....	.....	2.73	+ 0.91	1.53	12.0	4	17	5	6	s.	Mrs. S. A. Jackson.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
| Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 6, Missouri Valley.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Wyoming.																																	
Arapahoe	Big Horn								.20						T.	T.											.30						0.60
Barnum	Powder	.10											T.																				T.
Basin	Big Horn																																
Bennett	North Platte								.03		T.	.04	.01			.04			T.	.05	.05	.05		T.		T.			.08				0.35
Big Creek	do											.10				.01																	0.02
Casper	do	.01																															
Cheyenne	South Platte	T.	.02						T.			.14	T.				.03			.08	T.						.04						0.31
Chugwater	North Platte																																
Clark	Clark's Fork	T.							T.			T.	T.	.03	.05	.13			T.	T.	.04	.15	.08			.03			T.				0.51
Cody	Big Horn	.09							T.			.04										.05	.19										0.37
Crystal Lake	South Platte																																
Dome Lake	Tongue	.20									.10																						0.30
Douglass	North Platte	.04						.11		.07						.12				.07		.05				.06							0.52
Dubois	Big Horn								.02						.03				T.			T.				T.			T.				0.05
Eaton's Ranch	Tongue							.05							.30				.05	.20		.20	.20			.20							1.20
Echeta	Powder	.08									T.					T.		T.		T.		.07				.25							0.40
Elk Mountain	North Platte		.03						.03				.27			.16			.24		.60			.20		.24		.11	.11			1.99
Encampment	do		T.						T.							.01	T.	T.	T.	T.		T.		T.		.02		T.	.01			0.04
Ervay	do	.18							.08			T.		T.	T.	.13	.02			.04	T.		T.				.05	T.					0.50
Fort Laramie	do		T.										.04							T.	.09		.01										0.14
Fox Creek Station	do																																0.62
Gillette	Powder	.20	.05						T.		T.	.05				.20				T.		T.	T.					T.					0.50
Granite Canyon	South Platte	.02							.01			.10	.10			.01	.05				.20	T.					T.						0.49
Hunters Station	Powder	T.	T.								T.	.04				.11				.04													0.19
Hyattville	Big Horn																										.08						0.25
Kirtley	Niobrara		.17																														
Kirwin	Big Horn																																
Knowles	Belle Fourche	.20	.24								.01		T.			.19				.02													0.66
Lander	Big Horn	.27	T.						.04	T.		T.			.02	.02	T.			.04								T.					0.39
Laramie	North Platte								.01			T.			T.	T.				.03													0.04
Leo	do	.02	.04						.02			.03				.03				.07	.03						.02						0.26
Lolobama Ranch	Big Horn	.15							.05				T.		.30	.20				T.		.10											0.80
Lovell	do															.04	T.			T.		.06	.04										0.14
Lusk	Niobrara																			.30													0.30
Luther	South Platte																																
Manville	Niobrara	T.	.10						.05			T.	T.		T.					.15			.05				.10						0.45
Moorcroft	Belle Fourche														.30																		0.30
Moore	North Platte		.03						.04			.02					.01	T.	T.		.08	.01					.10						0.29
Newcastle	S. Fork, Cheyenne	T.									T.					.40											.20						0.70
Pathfinder	North Platte		.05									T.								T.	T.						.10						0.15
Phillips	do		.10					T.				T.					T.																0.10
Pine Bluff	South Platte																				.03												0.04
Powell	Big Horn	T.							.01	T.		T.		.01		.03		T.	T.	T.	.08	T.		.01		.01			.02				0.18
Rawlins	North Platte		.02																														
Riverton	Big Horn																				.06							T.	T.				0.21
Saratoga	North Platte								T.					T.		.15					.20								T.				0.23
Sheridan	Tongue	.05						T.			T.				.04	.01		T.	.02	.02	T.	.05				.04							0.35
Shoshone Dam	Big Horn	.05														.10					.20												0.15
Soldiers' Home	Powder										.05									10													0.67
South Pass City	North Platte	T.	.02						T.			T.				.05				.01	.02	.15	.07	.06		.06			.23				
Thermopolis	Big Horn																																
Upton	Cheyenne																																
Valley	Big Horn	.05						.04								.02				.08		.04	.01										0.24
Verona	Tongue																																
Wiley	Big Horn		.15						.12			.01	.01				.05			.01	T.	T.	.30				T.						0.65
Wyncote	North Platte		T.																	T.													T.
Yellowstone Park	Yellowstone	.21						T.	.01		.06	.02	T.	.05	.33	.06	T.	T.	.02	.04	.02	.24	.04	.02	.09	.12	.02	.12	.14				1.61
(1) Fountain Hotel	Madison	.30										.07			.86	T.				.11		.20		.34		.36	.08	.24					2.56
(2) Grand Canyon	Yellowstone																																
(3) Lake Hotel	do	.18								T.	.07	.07		.20	.46	.31		.05	.06	.08	.07	.06	.10	.10	.04	.38	.08	.10	.10				2.51
(4) Norris Basin	do	.34										.10			.60			.10				.16						.33					1.63
(5) Riverside	Madison	.30										.01		.30	.50	.02		.01				.30	.20	.02		.40	.10	.20					2.46
(6) Soda Butte	Yellowstone	.30							T.	T.	.05		T.	.20	.40	.60				T.	T.	.10				.15							1.80
(7) Sylvan Pass	Big Horn	.30										.45	.24	.20						.20		.15		.45		.48		.20					2.67
(8) Thumb	Yellowstone	.27										.19	.18	.36	.74	.40				.11	.16	.50	.92	.83	.81	.94	.16	.22	.42				7.21
(9) Tower Falls	do	.42												.04	.25		.19	.40	.03				.95			.25			.80				3.33
(10) Upper Gey. Basin	Madison	.20										.30		.40	.60							.10		.20									1.80
Montana.																																	
Adams	Yellowstone	T.									T.			.10	.50							T.		T.	.10	T.							0.70
Adel	Missouri	.20						.10			.10	.05			1.40				.05			.05				T.			.20				2.15
Agricultural College	Gallatin	.20							.01		T.	.08	T.		.20	.05	T.	T.	.10	.08	T.	.10				T.							0.82
Augusta	Sun River							.02							.55						.10	.10											0.77
Babb	Milk River												1.06						T.	T.				.15	.15			1.38					2.74
Bald Butte	Missouri	.22						.01		T.	T.				.77	.04		T.	.03	T.	.09	.18		.07	.09	.31	T.	.34	.12				2.27
Big Creek	Yellowstone	.50							.03		.03	.04			.32	.12			.05	.06		.15											1.30
Big Timber	do																																
Big Timber Creek	do	.13						.05							1.20	.09			.12			.17											1.76
Billings	do	.04									T.				T.	T.			.02	T.	T.												0.06
Boulder Nursery	Jefferson	.20						T.							.30				T.	T.	T.	.20					T.						0.70
Bowen	do	T.										.01	T.	.38	.11			T.	.06			.18		.07	T.	.14	T.	T.	.11				1.06
Bridger	Yellowstone	.01	T.									T.			T.	.02				.02		T.											
Broadview Exp. Sta	do	.16									.04				.28	.30			.12	.06	.05												1.01
Busby	do	.04	.01						T.		.03				T.	.01	T.	.02	.12	.06		.02				.03							0.34
Busteed	do	.02							T.		T.	.05			.13	.05	T.		.16	.10	.03	.05	T.			.04							0.63
Butte	Jefferson	.10						T.				T.			.30	.10		T.	.10	.05	T.	.10			.05	.15		T.					0.95
Canyon Ferry	Missouri	T.													.10				.03			.02				.09			.03				0.27
Cascade	do	.19						.02			T.				.60	.02			.06	.06	.03	.15		T.	T.								1.13
Cataract Creek	Jefferson					.03					.13				.29						.21	.09	.02		.06	.03	T.		.02				0.88
Chessman Reservoir	Missouri	.29						.04			T.	T.	T.	T.	.30	.13		.05	.07	.07	.06	.18		.04	T.	.12	T.		.09				1.44
Chester	do																																
Chinook	Milk River												*		.36	.12						.12		.08	T.	T.	.02						0.70
Chouteau	Missouri															.20				.10		.30						.05					0.65
Clear Creek	Milk River												.20	.50											.10								0.80
Clemons	Missouri																																
Copper	Musselshell	.10									.15	T.	.02		.35	.12		.08	.14	.06	.05	.11	T.	T.	T.	.18	T.	T.	T.				1.36
Crow Agency	Big Horn	.20	T.						.02						T.	.02	T.	T.	.10	.10													0.44
Culbertson	Missouri	.20								.10				.10	.30									T.									0.70
Cut Bank	Marias												T.		.29						.10	.05							.17				0.61
Decker	Tongue								.20								.20																0.40
Deep Creek	Missouri																																
Delphine	Musselshell											.01	.01		.21	.02			.08	.04	.08					.01							0.46
Denton	Missouri																																
Dillon	Jefferson	.40					.10				T.				.31	.10			.20			.15	.03			.40							1.69
Dirty Creek	Musselshell	.04									T.		T.	.03	.39	T.		.04	.10	T.	.09	.17	T.			T.							0.86

TABLE 2.—*Daily precipitation for February, 1910. District No. 6*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Montana—Cont'd.																																	
Dry Creek	Missouri																																
Dry Wolf Camp	...do	.26						T.			.16	.02	.01	T.	1.00			.10			.20			T.	.14				T.				1.89
East Gallatin River	Gallatin	.15									.12	T.	.09		.28	.14		.08	.13	.07		.05	T.										1.11
Ekalaka	Little Missouri	.10	.20												.20																		0.50
Elkhorn	Jefferson	.18					T.	T.	T.		T.		.01	T.	.17	.08	.02	T.	.10	.04	.05	.16	T.	T.		.05	.04	T.	.02					0.92
Evans	Missouri																																
Fallon	Yellowstone	T.	.04								T.			T.	.77							T.			.09								0.90
Family	Marias	.04												•	.48						•	.06							.03				0.61
Fish Creek	Jefferson	.50	T.	T.	T.	T.	T.	T.	T.	T.		.08	.64						T.	T.		.14		T.		T.		.30	.12				1.78
Fishtail Creek	Yellowstone	.21													.04	.06				T.		.03				T.							0.34
Flathead Creek	...do	.29									.12		.05		.40	.17			.42	.16	.05	.09					.33						2.08
Forsyth	...do	T.									T.				.20				.10	T.	T.	.10											0.40
Fort Benton	Missouri														.32																		0.32
Fort Shaw	Sun River	T.						T.							.92				.25	.40	.60	.35							T.				2.52
Foster	Big Horn	.01						T.			T.				T.	T.		T.	.06	.02		T.											0.00
Garneil	Musselshell																																
Glendive	Yellowstone	.06												•	•	.34								.03									0.43
Goldbutte	Marias	.05									.01	.01		.01	.20				.01					.09					.01				0.39
Graham	Powder	.02	.01								T.		T.			.05			T.	T.		.01	.01				T.						0.10
Grayling	Madison											T.	T.	.09	.32			T.	.05			.04			.06	T.		T.					0.56
Great Falls	Missouri	.17						.03			.03				.31	.04			.11	.09	.07	.12							.02				0.99
Half Moon Pass	Musselshell	.08						.01			.07	.01	.05	.02	.07	T.		T.	.01	T.	.01	.04		.02			.01	T.					0.40
Half Way House	Missouri	.20							.08		.18		.06		.34	.26		.69	.53	.11		.17	.15			.11							2.88
Harlowton	Musselshell																																
Hassel	Missouri	T.									T.				21	T.				.06		.14				T.			T.				0.41
Havre	Milk River							T.					T.	.16	.14	.02					.05	.04		.13		.22	.03		T.				0.79
Helena	Missouri	.02						T.			T.		T.	.68	.01			.02	.01	.02	.09	.11		T.	.01	.03		T.	.18				1.18
Highwood	...do	.67						.03			.17				.50	.14			.05	.04	.04	.10							T.				1.74
Homepark	Jefferson	.15						.02				T.			.20	T.		T.		.10	.12												0.59
Huntley	Yellowstone															.50			.12														0.62
Jones Canyon	Gallatin	.34						.05		.11		.16			.79	.04	.16	.06	.44	.03	.06	.01			.23		.24						2.72
Jordan	Missouri																																
Kleinsmith Creek	Jefferson	.03									.01				.20	.05			.08	.02	.06	.12	.06		.01	.01	T.		.02				0.67
Lewiston	Missouri	.13											.22		.11			.07		.05	.15	.07		.02		.09							0.91
Livingston	Yellowstone	.11						T.	T.		T.		T.		14	.15				.12	.06	.08	T.			.04	T.		T.				0.70
Lodge Pole Creek	...do	.03						T.							.28	T.			.10	T.	T.	T.		.12								0.53
Lonetree	Missouri	.35						T.			.09				1.25						.10	.08											1.87
Lost Horse Creek	Musselshell	.07							.01		T.	T.	T.	T.	.31			.03	.03	.07	.01	.11				.06	.03	T.	T.				0.73
Malta	Milk River	.04						T.						.08	.25	.06					.03	.07		.05	T.		T.						0.58
Meadow Creek ‖	Madison	.35						T.		T.	.05	T.			T.	.30		.35			T.	.25			T.		.10						1.40
Melstone	Musselshell										.01			.12	.17					.03	.05	.05											0.43
Mildred	Yellowstone	T.									T.				•	.60						T.				T.	T.	T.	T.				0.60
Miles City	...do	.24									T.			.04	.38	.02		.01				.04		.04		T.	.03		T.				0.80
Mill Creek	...do																																
Moore	Missouri	.10								.30		T.		T.	.43			T.	.24		T.	T.	T.										1.07
Mudd Creek	Jefferson																																
Norris	Madison	.30							T.						.02	.01				.10		.08											0.51
Nye	Yellowstone		T.					.02	.04			T.			.03	.02				.03	T.	.08				.02							0.24
Olsen Creek	Jefferson	.04									.01				.12	.03			.09		.04	.08				.05							0.46
Pipestone Pass	...do	.16						T.		.05					.35				.03	.10	.01	.03				.20		T.	.03				0.96
Poplar	Missouri	T.												T.	.32																		0.32
Raymond	...do	T.						T.				T.		.70	.14			.50	.40		T.			.19				T.	.05				1.98
Red Lodge	Yellowstone		.23					•	.10			T.			•	.10			.02	.02		•	.04			.02							0.53
Reese Creek	Gallatin	.16													.36		.28		.12		.42												1.34
Renova	Jefferson	.12						T.	T.			T.			.12	.05				.02	T.	.04	.03			.02							0.40
Rimini	Missouri	.41											T.	.07	.34	.24			.05	.12		.19		T.		.30		T.					1.72
Ryegate	Musselshell	T.						T.				T.			.10				.08	.09	T.	T.											0.27
Sedan	Yellowstone	.05							.01		T.		T.	T.	.30	.15			.12	.11	.05	.07	T.			.05	T.							0.91
Springbrook	...do																																
Stearns	Missouri														•	.65									.24				.29				1.18
Three Forks	Madison																																
Tokna ‖	Yellowstone	.11									T.	T.		•	•	.80						T.		T.	T.								0.91
Townsend	Missouri																																
Trail Creek	Yellowstone	.17							.01			.10		.08	.06	.13		.07	.10	.04	.02	.06				.06							0.90
Utica	Missouri	.11									.17				.90																		1.18
Valentine	Musselshell	T.						T.						.02	.59				T.		T.	.09		.05			T.						0.75
Virginia City	Jefferson & Madison	.05							T.		T.				.08				T.			T.			T.								0.10
Wall Rock Mountain	Missouri	.16							T.		.02	.02			.34	.17	.03		.14	.08	.06	.13				.30	.01	T.					1.46
Warm Springs Creek	Madison	.11							.01		.12	.08			.27	.11		.07	.04	.13		.12					.02						1.08
West Rosebud Creek	Yellowstone	.15						.05							.08	.02			.04	.07		.05											0.46
Willow Creek	...do	.14						.03					.04				.34			.14				.16									0.85
Wolf Creek	Missouri	.18						T.				T.			.83				T.	T.	T.	.12			.03	.04			.06				1.26
Wolf Point	...do																																
Woodville	Jefferson	.07											.06		.16	.07			.34	.10		.18				.11							1.09
North Dakota.																																	
Aplin	Knife		.10												.20	.10						.10											0.50
Beach	Little Missouri																																
Berthold Agency	Missouri	T.													•	.15						.05		T.	.02				T.				0.22
Bismarck	...do	.01								T.	T.	T.			.18	.32				T.		.05		.01	T.	T.							0.57
Broncho	Knife																																
Buford	Missouri	.05						T.		T.			T.	.10	.10	T.						T.		T.	T.		T.		T.				0.25
Coal Harbor	...do														.10	.20						.15			.05								0.50
Dickinson	Hart		.05							T.	T.	T.	T.	T.	.71	.07				T.		.12		T.	.02		T.						0.97
Edgely	James		T.												•	.30																	0.30
Ellendale	...do														T.	.10	T.			T.		T.			T.		T.						0.10
Epping	Missouri	.02								.01	.02			.03	.05	.02						.03			.12				.01				0.31
Fullerton	James		.03					T.		.05					T.	1.50			T.	.02	T.				.01								1.61
Haley	Grand	T.	.03										T.			.57							.10	T.		T.							0.70
Hettinger	Cannon Ball														.30	.40								.10	T.								0.80
Howard	Missouri	.55	.15													.30									.30	T.							1.30
Jamestown	James														•	.40																	0.40
Lamoine	Missouri	T.						T.	T.	T.					•	.20						T.			.20	T.							0.40
LaMoure	James																																
Mc Henry	...do							T.								.05						.02											0.07
Manfred	Sheyenne							T.		.05						.20			T.			.10			.10	T.							0.45
Marmarth	Little Missouri	.04	.04												T.	.65						.01		T.		.03							0.77
Marstonmoor	James	T.						T.	T.							.40						.10	T.		.05	T.							0.55
Medora	Little Missouri	T.	.10											T.	•	1.20					T.	•	.20	T.									1.50
Melville	James															.40																	0.40
Mott	Cannon Ball	.15								.03				.16	.31	.22						.11		.13									1.11
Napoleon	Missouri														•	.50																	0.50
New England	Cannon Ball														.60	.60								.20									1.40
New Salem	Heart	.01							T.	T.	T.	.03			.30	.60				T.		.10			T.								1.04
Orange	Cannon Ball									T.						.90						.10		.10									1.10

TABLE 2.—*Daily precipitation for February, 1910. District No. 6*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
North Dakota—Cont'd.																																	
Palermo	Missouri	.02									.05				.30	.30																	0.67
Schafer	Little Missouri	.15	.15							T.	T.			T.	.15	.25						.03		T.	T.				T.			0.73
Steele	Missouri	T.													*	.30						T.	.10		T.							0.40
Swartwood	Grand																																
Washburn	Missouri															.10						.02		T.	T.							0.12
Williston	...do	.02												.03	.03	T.						T.			.26	T.						0.34
Wishek	...do														.40	.15				T.												0.55
South Dakota.																																	
Aberdeen ‖	James		T.						T.	T.		T.			T.	.60	.30				.10		.05		.15							1.20
Academy	Missouri										T.					T.				T.	.03	T.	.15	T.								6.18
Alexandria	James															T.						T.										T.
Ardmore ‖	Cheyenne		.05																	.60		.20					.20					1.05
Armour	Missouri																																
Belle Fourche	...do	.02	.09								T.				T.	.10				.02		T.	T.									0.23
Bowdle	Missouri																																
Brookings	Big Sioux	*	T.													*	.20			*	.10	*	.10									0.40
Burke	Missouri																																
Canton	Big Sioux																						.30									0.30
Cascade Springs	Cheyenne		.28																T.	.15			.05				.05					0.53
Castlewood	Big Sioux	T.	T.								T.	T.			T.	.08	.02			T.	T.	T.	T.				T.					0.10
Centerville	Missouri		T.							T.	T.					.02	T.			T.		.05		.15			T.	T.				0.22
Chamberlain	...do															T.				T.		T.										T.
Clark	James	.02						T.			T.	T.			.05	.20				.05	.05	.10										0.47
Clear Lake	Big Sioux																																
Cottonwood	Missouri		T.								T.				T.	.02				.03		.02										0.07
Daviston	Grand	T.	.25												.30	.10						T.				T.						0.65
Deadwood	Cheyenne		.70										.10			.10													.20			1.10
Deerfield	...do	T.	T.						T.				T.			.03				T.			T.				.03		T.			0.06
De Smet	James	T.									T.					.20				*	.20		.20				T.					0.60
Dowling	Cheyenne		.12													T.	.05		T.		T.	T.	T.									0.17
Dumont	...do	T.	.27						.14				.22			.08				.02						.01	.29		.14			1.17
Elk Mountain	...do															.40				.48		.14					T.					1.02
Elk Point	Missouri																																
Ellingson	Grand																																
Englewood	Cheyenne		.19						.05			.04	.10				.03			.01							.06		.05			0.53
Eureka	Missouri														.50	.80				T.		.20			.20							1.70
Faulkton	James	T.									T.				*	.43				T.		.05					T.					0.48
Flandreau	Big Sioux															.30							.20									0.50
Forestburg	James																			.40		T.	T.									0.40
Fort Meade	Cheyenne	T.	.10									T.	T.		T.	T.	T.			T.		T.										0.10
Frederick	James																																
Gannvalley	Missouri	T.													T.	.30			T.	T.		T.										0.30
Greenmont	Cheyenne	1.30						.20			.19		.15							.08						.05			.11			2.08
Greenwood	Missouri											T.								T.		.03		.05					T.			0.08
Hardy Ranger Station	Cheyenne	T.	.11						T.		T.		.18			.15				.07									.09			0.60
Harveys Ranch	...do		.19						T.		.11		.09						T.	T.						T.	.18					0.57
Hermosa	...do														T.	.05	T.		T.	T.			.02									0.07
Highmore	Missouri	T.									T.				.13	.04				T.		.02	T.						T.			0.19
Hill City	Cheyenne				T.											T.				T.		.04	.02									0.06
Hopewell	...do		T.								T.				*	1.53						T.										1.53
Howard	James		T.								T.	T.				.15	T.			T.	.04	.07					T.					0.26
Howell	...do														T.	.18				T.		.04	.16				T.					0.38
Huron	...do									T.	T.					.15				.05		.03					T.					0.23
Ipswich	...do														.50	.65				T.		T.					T.					1.15
Kadoka	White															.06																0.06
Kennebec	Missouri		T.													.10					.05	.10	.10									0.35
Kidder	James		T.							.02	T.				.23	.50	T.			T.	T.	.05	T.				T.					0.89
Kimball	Missouri	T.													T.	.09					.20		.20									0.49
La Delle	James															.13				T.	.01	.05	.03				T.					0.22
Lead	Cheyenne	.21						.02				.04			.05					.02						.04			.05			0.43
Lemmon	Grand	T.								T.					.60	.60						.10		T.		T.						1.30
Leslie	Cheyenne									T.					T.																	T.
Marion	Missouri															.11					.05		.11									0.27
Marston	...do															.28																0.28
Mellette	James		T.							T.					.04	.10	.04			.01		T.										0.19
Menno	...do															.05				T.	.05		.16									0.26
Milbank ‖	Minnesota		T.							T.						.48	.11								.06							0.65
Mitchell ‖	James															.05					.02											0.07
Murdo	White																					.20										0.20
Oelrichs	Cheyenne															T.			T.	T.	.02	.02	.05	.05			.30	.02				0.46
Orman	...do										T.				T.	T.				.05		T.										0.05
Ottumwa	Missouri														.20	.50				T.		.20										0.90
Pierre	...do									T.	.01		T.		.01	.07				.01		.04										0.14
Plankinton ‖	James										T.					.11				.05		.09										0.25
Rapid City	Cheyenne		T.								.03		T.		.07		T.			.02	.02	T.				T.			T.			0.14
Redfield ‖	James															.20																0.20
Rochford ‖	Cheyenne	T.						T.				T.			T.					T.						.03						0.03
Rosebud	White		.05									.15				T.					.05	.10										0.35
Roslyn	Big Sioux	T.							T.	T.	T.				.05	.40				.12	.05	.05	.05		.12		.02					0.86
Savoy	Cheyenne	.30						*	.07				.05		.04					.02						T.	.09					0.57
Selby	Missouri														*	.83				T.	T.											0.83
Sioux Falls	Big Sioux									T.	T.					.02				T.	T.	.10					T.		T.			0.12
Spearfish	Cheyenne	.06									.03			.08					T.		.02		.05				T.					0.24
Stephan	Missouri	T.	T.								T.		T.	T.	T.	.10				T.	.06	.05	T.									0.21
Tama	Cheyenne														*	.20						.02				T.			T.			0.22
Vale	...do	.03											T.		.02	.10				.02												0.17
Vermilion	Missouri															T.					T.		.25									0.25
Waters Ranch	Cheyenne		.20													.19				.10			.01									0.50
Watertown	Big Sioux	T.									T.				T.	.40				T.		T.			T.							0.40
Wentworth	...do															.06							.18									0.24
Wessington Springs	James																																
White Lake	Missouri										T.					T.						.30										0.30
Yankton	...do		T.								T.					T.		T.		T.	.01	T.	.20				T.		T.			0.21
Minnesota.																																	
Pipestone	Big Sioux															.02				.03													0.05
Colorado.																																	
Akron	Republican																																
Alma	South Platte		.07							.02				.04		.02							.05				.10		.25			0.55
Arriba	Republican		T.						T.																								T.
Auldhurst	South Platte		.05						.05							.78	T.			.12						T.	.01						1.01
Barker	...do																																
Boreas	...do								.02				.27	.18		.28	.17	.02	T.									.07	.20				1.21
Boulder	...do	*	.48	.04				.23				T.				*	.30			*	.36							T.					1.39
Burlington	Republican		.04						.02												.07					T.							0.13

TABLE 2.—*Daily precipitation for February, 1910. District No. 6*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Colorado—Cont'd.																																	
Cassells	South Platte		.05									T.				*	.20		.02										T.				0.27
Castle Rock	do		.20						T.							.20					T.											0.40
Cheesman	do		.02					.03								1.05					T.											1.10
Cheyenne Wells	Smoky Hill																																
Como	South Platte																																
Cope	Republican						T.						.10																				0.10
Corona	South Platte		.04							.38		.12	.50	.16		.18	.26		.04	.76	.54	.10	.12	.26			.54	.18	.34				4.42
Denver	do	.02	.14	T.					.06			T.	T.			.05	.02			.04	.02												0.35
Edgewater	do	.18							.11			T.					.13	T.			.03												0.45
Estes P'k. Fish H'y	do		.05						.02			T.	T.				.02	T.	T.	T.	.04	T.					T.	T.	.05				0.18
Fort Collins	do		T.						T.			.01				.02	.10			T.	.03												0.16
Fort Morgan	do		T.						T.				.13								.03												0.16
Frances	do		.05						.03			T.	.10			.15	.11		T.		.12	.05		.06		T.	.05		.29				1.01
Fry's Ranch	do		.04						.02							.04	.04				.04								T.				0.18
Georgetown	do	.01	T.					T.	T.			T.			.06	.12	T.	.03	T.	.01	T.	.01	.03			T.			.08				0.37
Greeley	do	T.	T.					T.				.02				.01				*	.09	.01	T.										0.13
Hartsel	do		.02	T.					T.							.14	.02		T.		T.		.01						T.				0.19
Hawthorne	do		.21						.05				T.			*	.19				.15												0.60
Holyoke (near)	do												.03																				0.03
Idaho Springs	do		.08													*	.16				.09												0.33
Kessler	do																																
La Porte	do																																
Le Roy (near)	do																																
Longmont	do		T.						T.				T.				.09				.03												0.12
Long's Peak (near)	do		.07						T.							.13	T.																0.20
Moraine	do								.02			T.	.02			.13	.10			T.	T.					T.			T.				0.27
Platte Canyon	do	*	.11													T.	.09		T.	T.													0.20
St. Cloud	do		.05										T.			T.	.06				.14												0.25
Sedgwick	do												.02																				0.02
Sill Mine	do	T.	T.						T.	T.	T.	.12	.45	.10	*	.31	.14	T.	.10	.05	.11	.22	*	.38	*	.10	.11	T.	.38				2.57
Spicer (near)	North Platte								.01				.11			.01					.12	.01		.01		.11		.10	T.				0.48
Sterling	South Platte		T.						T.												.10								T.				0.10
Waterdale	do		T.						T.								.14				T.												0.14
Westlake	do		.03						.02			T.				T.	.04			T.	.01		T.										0.10
Wray	Republican		.02									.20								T.						T.	T.						0.22
Yuma	do		T.										.04													T.	T.						0.04
Nebraska.																																	
Ainsworth	Niobrara		T.																			T.							T.				T.
Albion	Loup															T.		T.	T.				.05										0.05
Alliance	North Platte											T.				T.				T.			T.					T.						T.
Alma	Republican														T.					T.	.05												0.05
Anoka	Niobrara	T.								T.						T.	T.			T.		.12							T.				0.12
Ashland	Platte																				.22		.01	T.									0.23
Atkinson	Elkhorn		T.							T.										T.	T.	.01	.04										0.05
Auburn	Little Nemaha							T.													.18		.02			T.							0.20
Beatrice	Blue																				.20												0.20
Beaver City	Republican												T.									.07											0.07
Bellevue	Missouri																				.30		.10										0.40
Blair	do																			.05	.15		.30										0.50
Bloomfield	do																																
Bridgeport	North Platte		T.						T.				T.							T.	T.						T.		T.				T.
Brokenbow	Loup																																
Burge	Niobrara	T.	T.																														T.
Callaway	Loup																																0.00
Cambridge	Republican		T.				T.						T.						T.	T.	T.	T.											T.
Canton (near)	North Platte	T.																		T.							.19						0.19
Columbus	Loup																			T.	.06		T.	T.									0.06
Creighton	Missouri	T.																		T.	.02		.11										0.13
Crete	Blue																				.29												0.29
Culberson	Republican		T.												.05	T.																	0.05
Curtis	do																																
David City	Blue		T.																	T.	.40		.12	T.									0.52
Dawson	Great Nemaha							T.					T.								T.	T.	T.				T.							T.
Elsie	Republican	.02	.01					T.						T.														T.	.10				0.13
Enderslake	Loup																																0.00
Ewing	Elkhorn																				.05		.05						T.				0.10
Fairbury	Blue							T.													.15	T.	T.	T.									0.15
Fairmount	do																			.15													0.15
Fort Robinson	Niobrara		.05	T.																	.09						.10						0.24
Franklin	Republican		T.																		T.												T.
Fremont	Platte																			T.	.10		.20	T.									0.30
Fullerton	Loup																				.10					T.							0.10
Geneva	Blue		T.													T.					.30												0.30
Genoa	Loup		T.									T.				T.				T.	.10		.05	T.									0.15
Gordon	Niobrara																																0.00
Gosper	Republican																				T.	T.											T.
Gothenburg	Platte		T.																	T.	T.												T.
Grand Island	do																				.06												0.06
Grant	Republican		.10																														0.10
Greeley	Loup		T.																T.	.02		.07											0.09
Halsey	do																									T.							T.
Hartington	Missouri		T.													T.	T.			T.	.05	T.	.10										0.15
Harvard	Blue							T.													.07												0.07
Hastings	do																				.40												0.40
Hayes Center	Republican		.10				T.												T.	T.	.05								T.				0.15
Hay Springs	Niobrara	T.	T.							T.										T.							.05						0.05
Hebron	Blue							.11													.16												0.27
Hemingford	Niobrara		.02						.01												.03		.01				.12						0.19
Hillside	North Platte		T.																	T.	T.						T.						T.
Holdredge	Republican																				.05	.02											0.07
Hooper	Elkhorn																				.15												0.15
Imperial	Republican												.10							T.	T.						T.		T.				0.10
Kearney	Platte																			T.													T.
Kimball	South Platte		.05					T.				.30								T.													0.35
Kirkwood	Niobrara									.10										.10		.05											0.25
Kowanda	North Platte											.12																					0.12
Lexington	Platte																																0.00
Lincoln	do		T.													T.					.18	T.	T.	T.			T.						0.18
Loup	Loup																				T.												T.
Loyal	do																																0.00
Mc Cook	Republican																																0.00
Madison	Elkhorn																			T.	.20		.10										0.30
Marquette	Platte																				.10												0.10
Mason City	Loup																																

TABLE 2.—*Daily precipitation for February, 1910. District No. 6*—Continued.

Stations.	River basins.	Day of month																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Nebraska—Cont'd.																																	
Minden	Blue																				.04												0.04
Mitchell	North Platte	.01	.01										T.				T.			.02						.02							0.06
Nebraska City	Missouri																				.30	.10											0.40
Norfolk	Elkhorn															T.		T.		T.	.18		.08										0.26
North Loup	Loup																				T.	T.											T.
North Platte	Platte		T.																	.02	T.								T.				0.02
Oakdale	Elkhorn		T.									T.				T.			T.	.01	.06		.07	.01									0.15
Omaha	Missouri		T.										T.			T.					.18		.10	T.		T.							0.28
Ord	Loup																				.05												0.05
Palisade	Republican																																0.00
Pawnee City	Great Nemaha													.05																			0.05
Plymouth	Blue																				.10												0.10
Purdum	Loup		T.									T.							T.	T.	T.		...	T.					T.				T.
Ravenna	do																				.04	T.											0.04
Redcloud	Republican		T.					.02													.13												0.15
Saint Libory	Loup																			T.	.10												0.10
Saint Paul	do																				.04												0.04
Santee	Missouri										T.					T.							.40			T.							0.40
Sargent	Loup																																
Schuyler	Platte																			.22		.16	T.										0.38
Scottsbluff	North Platte	T.							T.				.02										T.				.14						0.16
Seward	Blue																			.10													0.10
Sheridan	Loup		T.														T.					.09											0.09
Sidney	South Platte		.20										.10								T.						T.						0.30
Springview	Niobrara		T.									T.										.10	T.										0.10
Stanton	Elkhorn																		.05		.05		.20			T.			T.				0.30
Stratton	Republican																																0.00
Superior	do																				.05												0.05
Tecumseh	Great Nemaha																					.10											0.10
Tekamah	Missouri																		.10		.15		.20										0.45
Turlington	Little Nemaha		T.																		.60		T.	.03									0.65
Valentine	Niobrara		.03								T.					T.				.01		.22		T.									0.26
Wahoo	Platte																				.30		.20										0.50
Wakefield	Elkhorn																				.15		.10				T.						0.25
Walthill	Missouri																																
Watertown	Platte																			.02													0.02
Wauneta	Republican																																0.00
Weepingwater	Missouri																				.34		.02	.01									0.37
Westpoint	Elkhorn																			.10	.10		.20										0.40
Wisner	do																																
York	Blue																				.30												0.30
Iowa.																																	
Afton	Grand							T.				T.				T.					.50		.20				T.							0.70
Allerton	Chariton		T.					T.				T.									.16	T.	.05	T.			.25							0.46
Alton	Floyd									T.						T.					.10		.05											0.15
Atlantic	Nishnabotna															T.				T.	.15		.13											0.28
Audubon	do																		T.	.18	.10		.80											1.08
Bedford	Missouri							.05				T.									.20	.01	.02			T.	.08							0.36
Centerville	Chariton		T.										T.			T.					.22		T.	T.			.36							0.58
Chariton	do							T.				T.		T.							.25		.20				.22							0.67
Clarinda	Nodaway																				.20	.04	T.	.03			T.							0.27
Corning	do															T.					.40		.10			T.								0.50
Corydon	Chariton											T.									.10		.07				.24							0.41
Creston	Missouri																				.45	.05	.10											0.60
Cumberland	Nodaway																				.40		.20											0.60
Denison	Missouri															T.			T.		.12	*	.20											0.32
Elliott	Nishnabotna																				.35		.20											0.55
Greenfield	Nodaway															T.					.25		.19											0.44
Hancock	Nishnabotna																				T.		.21											0.21
Harlan	do		T.									T.				T.	T.		T.	.03	.05		.21			T.	T.							0.29
Hopeville	Grand							T.				T.				T.					T.	.25	.08				.06							0.39
Inwood	Big Sioux									T.					T.	T.					.02		T.											0.02
Lamoni	Grand							T.				T.				T.					.16	T.	.04				.09							0.29
Larrabee	Little Sioux																																
Le Mars	Floyd		T.													T.		T.			.07		.06				T.							0.13
Lenox	Missouri																				.20		.10				T.							0.30
Leon	Grand		T.					T.								T.	T.				.10	T.	.20				.50							0.80
Little Sioux	Little Sioux																			.05	.10		.15											0.30
Logan	Missouri															T.				.02	.09		.10											0.21
Massena	Nodaway											T.				T.					.50	T.	.20				T.							0.70
Mount Ayr	Grand							.10				T.									.20		.20				.12							0.62
Odebolt	Missouri																			.08	.10	.14											0.32
Onawa	do		T.									T.					T.		T.	.10	.15		.15											0.40
Pacific Junction	do		T.										T.								.33		.10	T.										0.43
Rock Rapids	Big Sioux															T.					.05	.05	T.											0.10
Sheldon	Floyd		.20													T.	T.					.10	T.			T.	T.							0.30
Sibley	Big Sioux																T.				T.		T.											T.
Sioux Center	Floyd		T.						T.	T.						T.					.10		.10			T.								0.20
Sioux City	Missouri		T.							T.						T.		.01		T.	.06	T.	.15			T.	T.		T.					0.22
Thurman	do		T.									T.				T.					.10		.02	T.										0.12
Washta	Little Sioux																				.05		.20											0.25
Woodburn	Chariton		T.					T.	T.		T.	T.				T.	T.				.40	T.	.55				.05							1.00
Kansas.																																	
Abilene	Smoky Hill		T.	T.																	T.					.14	.04							0.18
Agricultural College	Kansas		T.					T.													T.	T.	T.			T.	.30							0.30
Alton	Solomon		T.																		T.	T.	T.											T.
Atchison	Missouri		.25					.10					T.								T.						.50							0.85
Baker	do							T.																			.40							0.40
Beloit	Solomon																				T.													T.
Blakeman	Republican		.02										.15								.04	.01												0.22
Blue Rapids	Blue							.06													T.						T.							0.06
Centralia	do							T.													.01		T.				12							0.13
Chapman	Smoky Hill		T.					T.													T.		T.				.25							0.25
Clay Center	Republican							T.													T.	T.												T.
Colby	do		T.										.10								T.	.07		T.										0.17
Concordia	do							T.													.02	T.												0.02
Densmore	Solomon		T.																		.03	.10												0.13
Dresden	Republican		T.										.08								T.	.10												0.18
Ellsworth	Smoky Hill		T.																		.05	.05					.24							0.34
Enterprise	do		T.																								.13							0.13
Eskridge	Kansas		.80	.05				T.													T.		T.				.15							1.00
Farnsworth	Smoky Hill												.11								.03	.02	T.	T.										0.16
Ft. Scott	Marmaton		.18	.10					.10	.20							.30					.05					.10							1.03
Frankfort	Blue		T.					T.													T.		T.				T.							T.

TABLE 2.—*Daily precipitation for February, 1910. District No. 6*—Continued.

Stations.	River basins.	Day of month.																													Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Kansas—Cont'd.																																	
Garnett	Marias de Cygnes		.21					T.									.42				T.	T.	T.	T.			.20						0.83
Goodland	Smoky Hill																																
Gove	Blue												.20								.10	.10											0.40
Hanover	do							T.													.05						T.						0.05
Harrison	Republican							.04													.09												0.13
Hays	Smoky Hill												T.								*	.26											0.26
Hill City	Solomon																																
Horton	Kansas		T.					.08													T.		T.				.32						0.40
Hoxie	Solomon		T.										.15									.15											0.30
Jewel	Republican																																
Lawrence	Kansas		.70	.21				T.									.02				T.		T.			T.	.48						1.41
Lebanon	Solomon		T.					T.														T.											T.
Lindsborg	Smoky Hill																										.15						0.15
Mankato	Republican																				.10	T.											0.10
Minneapolis	Solomon		T.																		T.	T.	T.				.04						0.04
Moran	Marmaton		.26	.05					T.	.40							.40					T.					.30						1.48
Natoma	Saline																				.20	.10											0.30
Norton	Republican																				T.												T.
Oberlin	do		T.										.10								T.	.04											0.14
Oketo	Blue																				.02	T.	T.										0.02
Olathe	Kansas		.25	.09				.05					T.				.10				T.	.05					.37						0.91
Osage City	Marias de Cygnes		.71	.07				T.									T.				T.						.27						1.05
Ottawa	do		.26	.06				T.									.07				T.	.02	T.				.31						0.72
Phillipsburg	Solomon		T.																		.05	.10											0.15
Plainville	Saline																				.10	.20											0.30
Pleasonton	Marias de Cygnes		.16	.20						.31							.12					T.					.44						1.23
Republic	Republican																																
Russell	Smoky Hill																				T.	.12											0.12
Saint Francis	Republican	T.	T.										.02								.03												0.05
Salina	Smoky Hill		.05					T.													T.		T.				.11						0.16
Scott	White Woman		.11						T.				.03				T.				T.	T.	T.										0.14
Smith Center	Solomon																			.05													0.05
Topeka	Kansas		.51					.09									T.				.05	T.	T.				.22						0.87
Valley Falls	do		.32					.12	T.												.01		T.				.25						0.70
Vinland	do		.51														.03				.04						.38						0.96
Wakeeney	Smoky Hill												T.								T.		.15										0.15
Wallace	do		T.						T.				T.										T.										T.
Wamego	Kansas		.05					T.													T.	T.	T.				.30						0.35
Missouri.																																	
Amoret	Osage		T.		T.				T.	.35							.18				T.	.05		T.			.37						0.95
Appleton City	do		.20	.18						.70							.30					.20					.40						1.98
Arlington	Gasconade			.56						.60							.40	1.70					T.				.80	1.12					5.18
Arthur	Osage		.20	.10						.40							.30					.10					.40						1.50
Avalon	Grand		.30																		T.						.50						0.80
Bagnall	Osage									.50							.10	.60									.50	.90					2.60
Bethany	Grand		T.																		T.	T.	.10				.76						0.86
Bolivar	Osage		.15	.20						.45							*	1.00				.04					.34	.01					2.19
Boonville	Missouri		T.	1.02					.16	.10			T.					.08				.06	.04				.04	.22					1.72
Brunswick	Grand			.06					.03				T.					.06				.80					T.	.32					1.27
Clinton	Osage		.28							.32							.20					.05					.51						1.36
Columbia	Missouri		.16					.07	.17	.11		T.					.20				.05	.04	T.				.29						1.09
Conception	do							T.				T.				T.					T.	.05	.10			T.	.27						0.42
Darksville	Chariton																																
El Dorado Springs	Osage		.43	.10						.80							.40	.40				.10	.10				.43						2.76
Fairport	Grand		T.					T.			T.										.02	.02	.03				.60						0.67
Fayette	Missouri		.05					.06		.04		.01					.15				.02						.27						0.60
Fulton	do		.02	.12					.03	.13			T.				.36	T.			T.	T.	.05				.45	.06					1.22
Gallatin	Grand																																
Glasgow	Missouri		T.	.10					.18									.08				.12					.01	.28					0.77
Grant City	Grand		T.					T.	T.												.15	.10	T.	T.		T.	.25						0.50
Harrisonville	Osage		T.	.22					T.				T.					.06				.02	.01	T.				.39						0.70
Hazelhurst	Grand		.37					T.	T.			T.									.10		.02				.52						1.01
Hermann	Missouri			.12	T.				.01	.32			T.				.08	.58	.04			.01	.02	T.			.26	.40					1.84
Houston	Gasconade		.20	T.						.70							1.50	.25						T.			.50	.50					3.65
Huntsville	Chariton																																
Jefferson City	Missouri			.15					T.	.22			T.				.02	.23					.05				.10	.16					0.93
Kansas City	do		.23	.03				.04				T.					.04				.08	T.	T.				.37						0.79
Kidder	Grand		.77						.03													.06					.25						1.11
Lamonte	Missouri		.03	.19	T.				.02	.40		T.					.10	T.			.06	.03		T.			.46	T.					1.29
Lebanon	Osage			.43						.50						.33	1.10						.25				.34						2.95
Lexington	Missouri			.23					.02								.05	.05				.05					.10	.42					0.92
Liberty	do		T.					T.	.07							T.					T.	T.	T.				.34						0.41
Lockwood	Osage		.12	.13						.38							.73	.08						T.			.38						1.82
Marshall	Missouri		.12	.02					T.	.05	T.						T.					.02	.01				.53						0.75
Marshfield	Osage			T.													.80	.30				T.					.38						1.38
Maryville	Missouri								.02			T.	T.					T.				.05					T.						0.07
Mount Vernon	Osage		.10	.06						.30								*	1.10					.10			1.10						2.76
Nevada	do		.30	.10				*	.75								.40	.20		T.	.10						.92						2.77
New Palestine	Missouri		.06					.20	.26								1.30				.01	.04	T.				.30		.02				2.19
Oregon	Missouri		T.					.05				T.					T.				.03		T.				.26						0.34
Osceola	Osage			.60						.30								.50					.10				.05	.40					1.95
Pattonsburg	Grand																																
Rolla	Gasconade		.21	.42					T.	.63				T.			.95	.16				*	.06	T.			.74	.11					3.28
St. Charles	Missouri		.34							.45							1.08	.18					.10				.85	.29					3.29
St. Joseph	do		.01					.14				T.					T.				.01	T.	T.			T.	.34						0.50
St. Louis	Mississippi		.05	.19					.07	.50		.02	T.			.08	1.06	.20			.02	.02	.01				1.00						3.22
Sublett	Chariton		T.																		.10		T.				.10						0.20
Trenton	Grand			.62				T.					T.								T.	.14		.03			T.	.33					1.12
Unionville	Chariton		T.	.23							T.						T.				.20	.06	T.		T.		T.	.30					0.79
Warrensburg	Missouri	.06	.05	.17				T.	T.	.09		T.					.15				T.	T.	.03	.01			.27						0.82
Warrenton	do			.15					.01	.36			T.				.08	.63	.04			.02	.07				.38	.68					2.42
Warsaw	Osage		.25	.10				T.	.15	.85		T.					.30	.15			T.	.20	T.	T.			.46						2.46
Wheatland	do									.50							.60					.10					1.53						2.73

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 6, Missouri Valley.*

Date	Wyoming.																Montana.											
	Basin.		Cheyenne.		Fort Laramie.		Lander.		Newcastle.		Pathfinder.		Sheridan.		Yellowstone Park.		Billings.		Dillon.		Havre.		Helena.		Lewiston.		Malta.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	38	14	51	15	56	34	31	14	42	24	39	22	38	17	36	6	47	22	34	14	34	13	34	8	42	21	40	19
2...	30	− 1	15	6	41	17	16	−14	24	10	22	4	20	− 4	12	−12	22	− 6	20	−14	34	11	19	1	31	−12	33	3
3...	12	−20	35	− 2	39	− 2	11	−22	30	−15	18	−15	33	− 7	22	− 8	28	10	30	−10	47	25	15	4	47	6	45	8
4...	3	−20	48	15	51	13	14	−16	41	8	28	8	48	1	32	− 1	22	18	34	6	50	19	26	6	50	10	49	7
5...	4	−19	41	12	50	12	15	− 5	43	10	30	7	34	11	32	2	37	9	39	12	44	9	30	6	49	14	36	9
6...	15	−12	43	11	39	11	19	−10	34	10	28	12	36	8	28	3	41	11	38	17	46	20	38	21	45	9	44	5
7...	15	−14	47	14	48	5	22	−11	40	11	36	9	34	3	29	1	28	20	37	15	35	16	28	17	25	9	33	13
8...	24	− 2	25	8	31	7	22	− 6	32	8	28	12	29	2	26	9	33	11	34	12	32	8	31	10	29	0	33	6
9...	22	−12	36	8	42	2	9	−12	33	1	29	1	36	2	25	2	37	10	35	14	40	4	37	11	34	7	30	− 1
10...	20	−11	35	15	45	6	18	−11	32	10	32	7	34	9	28	10	38	21	36	18	29	8	37	21	29	16	30	−11
11...	22	5	29	14	39	11	24	− 4	28	2	27	12	27	13	24	13	31	11	41	26	29	2	32	16	37	7	25	− 4
12...	26	14	28	8	46	12	18	− 9	26	2	31	4	31	12	25	8	38	18	52	30	36	16	35	21	36	9	35	19
13...	30	8	52	16	60	12	51	− 2	44	8	39	20	51	14	35	25	48	20	50	30	25	17	48	25	41	16	27	3
14...	44	14	59	25	65	30	49	26	46	30	46	28	45	2	35	7	40	10	50	23	17	1	35	0	30	− 4	22	2
15...	44	0	25	− 1	16	7	26	1	35	− 8	42	5	5	− 3	12	−10	13	0	29	− 6	10	−11	2	−10	2	− 8	7	− 7
16...	10	−10	4	− 5	16	− 2	6	− 8	10	−18	11	− 7	5	−11	5	−20	8	− 7	8	−20	− 2	−25	− 4	−19	9	−26	4	−24
17...	5	−16	19	− 5	29	− 7	21	−15	16	−14	18	0	19	−12	11	0	26	3	31	− 5	− 9	−30	12	− 5	24	−15	−13	−41
18...	14	− 9	30	12	32	10	22	− 5	24	−10	28	12	18	− 3	25	5	18	1	32	10	2	−11	17	7	21	− 7	−12	−36
19...	20	− 7	40	6	37	8	28	0	20	−12	33	14	16	−12	20	− 4	14	0	34	16	7	−16	16	6	11	−11	7	−31
20...	20	− 7	17	0	31	− 5	17	−10	18	−10	26	− 4	9	−15	21	− 2	9	−19	33	18	2	−18	6	− 7	2	−10	2	−30
21...	15	− 9	31	3	41	5	35	− 6	20	−12	30	10	0	−16	18	−14	0	−14	30	−13	− 8	−30	− 7	−23	− 5	−18	− 4	−20
22...	3	−21	12	−10	27	− 8	4	−13	0	−22	33	−14	− 5	−23	23	−20	− 6	−32	25	−22	−13	−33	−11	−29	5	−36	−15	−37
23...	0	−10	44	4	55	− 4	30	− 7	34	−10	37	20	18	− 9	30	21	12	− 8	36	0	0	−16	31	−11	11	− 6	− 2	−20
24...	26	0	52	32	63	3	49	9	47	12	43	22	36	0	38	27	47	− 5	50	26	11	− 5	46	18	47	− 5	10	−11
25...	33	5	50	29	59	30	47	30	48	30	45	26	46	28	40	18	43	32	51	21	13	1	41	24	42	25	32	4
26...	34	10	37	16	44	24	36	18	36	18	39	18	35	18	23	8	40	25	49	30	35	−11	39	19	35	− 3	22	−11
27...	40	12	42	30	58	29	43	14	44	18	38	24	49	26	30	22	46	26	52	25	43	33	47	32	40	25	47	4
28...	42	20	49	30	68	39	46	33	51	26	47	31	52	31	40	28	45	33	53	20	43	14	42	29	40	6	41	22
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	21.8	−3.5	35.6	10.9	43.9	10.7	26.0	−1.5	32.1	3.8	32.2	10.3	28.5	2.9	25.8	4.5	29.1	7.9	37.2	10.5	22.6	0.4	25.8	7.1	28.9	6.8	21.7	−5.6

Date.	Montana.				North Dakota.										South Dakota.													
	Miles City.		Poplar.		Berthold Agency.		Bismarck.		Dickinson.		Jamestown.		Williston.		Aberdeen.[1]		Chamberlain.		Huron.		Kadoka.		Lemmon.		Pierre.		Rapid City.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	37	25	35	24	38	23	32	19	38	25	33	19	29	18	32	16	45	28	36	27	43	26	38	27	38	28	49	24
2...	24	5	25	−10	24	− 3	19	5	26	− 4	30	4	18	− 7	22	15	32	15	29	4	32	2	27	3	28	8	24	9
3...	38	5	34	0	34	− 8	30	2	25	− 3	19	0	29	3	21	− 6	37	0	26	− 8	35	3	27	− 3	31	3	44	7
4...	45	12	34	− 1	32	0	32	9	33	3	31	9	35	2	32	− 3	36	13	25	6	39	16	30	10	36	17	48	26
5...	40	11	30	− 5	28	13	19	2	33	− 2	24	− 2	21	− 4	20	2	38	5	15	0	29	14	24	5	26	8	41	20
6...	42	12	30	−10	36	− 1	25	2	31	− 5	33	− 1	30	− 4	27	− 6	40	0	27	− 6	36	12	24	1	35	5	38	15
7...	38	12	30	− 3	35	− 9	34	− 1	32	8	26	1	27	3	31	1	39	2	31	8	39	16	30	10	36	14	47	24
8...	32	13	25	0	25	11	25	10	25	3	21	10	21	2	27	5	34	16	24	7	28	16	27	8	27	17	30	15
9...	32	5	19	−15	22	4	10	1	17	− 5	21	− 6	14	− 5	11	3	25	9	12	1	26	9	15	− 2	18	8	32	12
10...	34	14	24	−12	23	0	24	1	23	− 4	15	−20	18	3	20	− 5	32	10	19	−13	31	5	24	0	25	8	40	12
11...	27	3	10	−22	14	− 9	13	− 5	15	− 6	15	−20	14	− 5	10	− 7	22	2	16	− 8	24	2	19	− 6	18	1	23	6
12...	35	11	26	−15	29	−19	23	−10	21	−10	15	−11	23	− 9	20	−11	22	− 8	15	−13	44	6	23	− 8	25	− 5	35	8
13...	36	14	22	− 2	31	− 2	28	6	30	3	27	2	22	6	28	− 8	36	6	27	− 5	31	− 3	24	2	30	8	36	12
14...	20	8	18	− 2	23	− 1	21	− 3	23	− 1	27	0	15	− 2	20	5	28	7	26	17	32	12	20	0	23	8	41	8
15...	8	− 8	2	− 2	2	− 7	1	−11	2	− 8	0	− 9	− 1	−12	0	− 3	21	− 2	20	− 9	12	− 8	0	− 9	8	− 4	8	− 6
16...	3	−13	− 1	−22	− 2	−23	− 4	−22	− 5	−23	− 4	−22	− 6	−20	0	−20	5	−18	0	−18	8	−14	− 3	−20	4	−11	6	−10
17...	− 2	−23	−11	−37	− 2	−32	− 2	−28	0	−30	−10	−25	−10	−33	3	−29	12	−10	6	−19	17	−10	2	−24	8	−10	15	−12
18...	− 4	−10	− 6	−44	− 8	−42	− 9	−37	− 7	−40	−10	−31	−12	−40	− 1	−28	10	−13	− 2	−19	3	− 9	− 9	−26	− 2	−15	10	− 3
19...	8	−12	− 2	−30	2	−39	− 2	−29	3	−32	− 3	−31	− 1	−28	10	−29	12	−18	14	−20	14	−10	− 2	−26	9	−16	15	0
20...	2	−26	− 5	−34	0	−28	1	−23	4	−28	− 3	−20	− 4	−26	6	−25	12	−10	4	−14	4	−10	0	−23	1	−11	11	− 8
21...	− 9	−17	−10	−25	− 3	−20	− 8	−20	− 7	−18	− 8	−18	−16	−26	0	−15	13	− 9	7	−12	5	− 4	− 7	−12	4	− 7	2	−11
22...	− 4	−29	− 9	−37	− 5	−31	−12	−26	−15	−34	− 9	−27	−15	−28	− 8	−20	7	−14	− 3	−18	− 1	−16	−12	−30	15	−14	− 2	−17
23...	3	−14	0	−25	− 1	−31	− 4	−29	− 7	−28	− 7	−26	0	−23	4	−25	9	−14	3	−19	19	− 9	− 5	−26	5	−13	10	− 9
24...	15	− 5	10	−15	6	−20	7	−16	9	−17	0	−16	5	−18	24	−22	17	− 2	18	2	.....	.....	6	−15	13	− 3	37	1
25...	46	8	22	− 6	26	2	23	4	38	2	20	− 2	20	4	28	− 8	42	10	35	18	45	15	40	− 3	29	9	57	29
26...	26	3	16	− 1	17	− 5	18	− 5	28	0	19	2	8	− 8	15	10	28	13	26	0	39	13	34	1	27	6	35	18
27...	48	12	45	2	40	− 7	28	− 1	42	− 2	20	−10	41	6	29	− 7	38	10	32	− 4	52	16	36	2	33	6	54	24
28...	49	32	42	10	44	21	43	17	39	20	37	15	43	19	37	6	50	28	40	23	50	32	39	20	49	31	58	31
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	23.9	1.7	16.2	−12.1	18.2	−9.4	14.8	−6.7	17.7	−8.4	13.5	−8.4	13.1	−8.3	16.7	−7.6	26.5	2.0	18.9	−3.3	27.3[a]	4.5[a]	16.8	−5.1	21.4	2.7	30.9	8.0

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 6*—Continued.

Date	South Dakota.						Colorado.				Nebraska.																	
	Sioux Falls.		Watertown.		Yankton.		Denver.		Wray.		Alma.		Bridgeport.		Grand Island.‡‡		Hay Springs.		Hebron.		Lincoln.		North Platte.		Oakdale.		Omaha.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	44	24	35	24	47	30	60	25	60	24	57	26	55	20	50	33	45	2	50	30	49	32	57	29	48	28	51	29
2	32	21	28	13	30	10	25	14	40	18	30	26	42	12	30	28	30	7	30	28	32	21	30	12	28	11	33	20
3	27	− 2	25	− 4	34	5	35	8	40	4	38	25	36	− 4	37	10	40	− 6	32	12	32	12	36	7	34	5	31	13
4	35	0	31	5	34	19	54	18	51	11	51	21	50	10	38	21	42	16	42	20	42	22	51	17	37	16	40	24
5	30	15	22	6	28	10	48	20	47	19	34	25	45	14	36	26	40	10	36	16	33	20	45	20	26	12	31	20
6	35	10	29	0	33	5	49	18	40	19	39	17	47	15	38	20	45	8	36	16	34	16	36	20	34	8	31	14
7	37	0	30	13	41	24	54	20	52	17	39	21	50	7	44	22	32	12	41	24	42	25	48	16	43	22	41	24
8	34	0	24	14	32	16	29	9	35	17	39	24	35	12	34	26	38	3	32	18	34	21	34	16	28	14	34	21
9	30	− 2	21	− 3	19	5	42	8	44	9	43	12	42	2	40	14	36	8	39	11	38	16	39	9	29	8	34	16
10	22	− 9	21	−11	26	5	41	19	46	12	51	15	45	6	45	14	33	13	45	17	[illegible]	13	46	14	31	4	34	10
11	18	−10	14	− 6	19	− 1	36	23	38	16	43	22	37	15	28	18	32	1	34	28	30	10	32	12	15	− 1	30	4
12	21	−10	16	−13	23	− 4	37	21	37	− 9	40	8	35	5	26	8	44	10	33	6	28	4	39	7	27	− 4	25	2
13	34	6	30	− 1	40	12	60	20	65	12	58	12	62	11	52	14	52	6	50	13	45	19	61	12	44	9	43	18
14	28	4	24	13	35	21	67	34	73	27	76	25	71	20	64	26	45	25	65	32	58	33	67	28	39	24	51	34
15	25	0	15	− 5	30	− 2	41	5	58	11	31	12	43	3	30	28	30	− 2	33	18	48	4	37	0	24	− 4	43	2
16	0	−16	1	−18	1	−10	6	− 3	13	− 1	14	2	18	− 4	12	− 2	10	− 9	18	3	10	0	15	− 3	5	− 6	8	0
17	−12	−16	6	−19	14	− 7	27	− 5	38	− 2	29	− 1	27	− 7	28	− 4	23	−10	24	1	23	− 1	27	0	23	− 8	19	− 1
18	10	−19	7	−14	16	− 5	38	11	42	9	38	14	35	4	35	6	29	1	39	13	36	14	35	5	24	− 2	34	13
19	20	−11	13	−19	29	−10	44	15	49	5	43	16	35	5	38	17	27	1	40	13	40	12	36	9	32	− 4	37	12
20	20	2	11	− 9	19	− 6	34	10	36	6	30	8	25	4	18	6	29	−10	19	12	28	2	25	5	9	− 5	32	4
21	19	− 3	3	−14	15	− 8	42	13	44	13	21	5	45	10	22	− 2	18	−10	22	− 2	18	− 3	32	4	19	− 6	19	− 2
22	16	−11	− 1	−18	14	−12	43	3	35	− 3	10	− 2	30	− 9	6	− 2	10	−14	7	2	15	− 7	12	− 6	− 3	−12	15	− 8
23	15	−12	5	−21	11	−10	56	10	45	5	20	0	50	6	19	− 4	37	− 3	18	− 3	11	− 7	31	2	14	−13	11	− 8
24	25	5	19	− 3	28	4	60	31	58	26	43	13	62	21	28	6	50	16	38	9	34	8	58	13	31	7	29	7
25	35	13	34	8	39	27	59	37	57	30	50	27	56	30	44	8	52	32	41	24	40	26	49	28	40	26	39	24
26	20	0	32	6	32	11	43	26	53	23	31	29	40	25	42	28	37	24	42	32	38	19	45	21	30	11	37	18
27	38	4	29	0	42	9	52	26	56	21	50	28	53	22	49	22	52	21	43	18	42	16	56	21	46	10	35	15
28	41	20	38	19	47	34	54	30	62	29	55	29	62	32	55	31	53	29	55	27	56	31	59	28	50	31	51	28
29																												
30																												
31																												
Mns	25.8	−0.2	20.1	−2.0	27.8	6.1	43.8	16.6	46.9	13.1	39.4	16.4	44.0	10.2	35.3	14.9	35.5	7.2	35.9	16.0	34.9	13.5	40.6	12.4	28.8	6.5	32.8	12.6

Date.	Valentine, Nebr.		Iowa.						Kansas.										Missouri.							
			Clarinda.‡‡		Sibley.‡‡		Sioux City.		Colby.		Concordia.		Salina.		Topeka.		Wakeeney.		Columbia.		Kansas City.		St. Louis.		Unionville.‡‡	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	45	26	54	6	42	11	44	28	64	28	56	33	54	30	60	32	63	29	57	23	63	32	50	26	55	11
2	27	7	34	26	30	24	31	14	42	22	33	24	44	27	53	28	49	26	51	32	53	29	55	33	40	30
3	37	2	33	14	25	1	33	4	35	7	34	15	32	17	35	21	40	11	38	27	38	24	37	31	36	20
4	42	14	41	14	32	0	34	16	54	16	47	23	48	22	46	24	52	17	43	23	45	23	45	27	50	18
5	33	17	35	20	22	6	28	15	48	18	40	25	45	25	42	25	46	26	44	24	42	25	45	26	40	23
6	38	17	34	10	28	− 2	31	10	35	19	39	21	39	21	36	18	39	19	31	14	34	16	29	17	34	6
7	43	15	41	10	36	2	41	22	50	10	37	24	42	26	38	25	49	19	40	23	39	26	39	24	36	16
8	29	11	34	19	30	16	30	16	45	9	34	22	38	21	35	26	43	27	41	28	37	29	50	29	34	22
9	30	8	36	15	17	7	22	10	48	12	43	18	42	16	41	21	47	12	32	19	39	21	31	24	35	19
10	37	10	37	10	15	−13	28	4	42	16	50	20	48	21	48	24	49	20	43	16	48	24	41	20	33	8
11	23	− 2	26	10	9	−14	21	0	47	17	34	18	33	26	34	16	42	19	42	16	37	16	41	20	28	12
12	29	− 7	25	1	13	−14	23	− 5	37	14	32	7	30	9	30	7	33	14	25	9	28	8	26	13	24	2
13	49	11	43	1	31	−13	38	12	64	12	53	21	53	17	49	20	57	15	42	16	46	20	40	18	42	6
14	37	23	57	13	33	1	36	22	74	31	65	35	61	26	64	35	72	33	59	34	64	37	59	34	58	24
15	26	− 5	42	29	28	22	31	− 1	59	20	52	9	53	23	57	9	57	18	63	17	57	11	65	30	52	36
16	7	−10	9	1	7	−13	3	− 7	20	0	12	5	23	7	11	7	18	2	14	6	11	7	30	14	8	4
17	16	− 6	21	− 1	11	−16	16	− 6	30	− 3	25	2	20	3	24	5	28	− 1	17	− 1	22	5	14	6	16	− 2
18	15	− 3	34	− 1	18	−18	21	0	47	5	41	15	38	15	32	12	43	7	30	− 2	29	11	24	3	31	0
19	27	− 3	39	10	19	−10	31	1	41	9	41	14	40	16	38	16	43	11	39	13	38	15	35	12	38	16
20	11	− 6	30	12	14	−11	23	− 5	38	11	34	10	38	18	37	14	38	11	41	26	38	15	41	23	33	12
21	26	− 3	30	− 6	15	−10	16	− 9	31	9	23	4	25	8	24	8	23	2	23	17	21	9	41	25	26	2
22	9	−14	19	− 5	− 4	− 9	14	−11	27	− 1	19	2	26	10	24	0	18	2	26	4	26	3	29	7	18	0
23	30	− 4	13	−10	6	−17	9	−11	30	0	19	− 1	15	1	12	− 2	19	− 2	10	− 1	11	− 5	10	− 1	8	−11
24	45	2	31	− 5	21	−14	28	5	58	14	42	10	39	10	38	6	49	10	28	5	34	7	24	4	28	− 6
25	52	31	36	3	34	1	37	20	58	28	45	25	47	25	41	22	59	27	43	16	43	22	39	16	42	− 1
26	34	19	37	19	25	18	34	12	51	28	44	25	45	34	42	24	49	32	42	32	42	30	45	35	38	15
27	52	25	37	10	29	− 2	35	10	54	17	43	17	46	17	40	19	54	20	33	28	38	19	35	27	40	18
28	57	32	50	20	40	3	46	25	62	23	57	32	59	30	55	27	56	28	48	26	52	27	43	27	47	22
29																										
30																										
31																										
Means	32.3	7.4	34.2	8.8	22.4	−2.3	28.0	6.8	46.1	14.0	39.1	17.0	40.1	18.6	38.8	17.5	44.1	16.2	37.3	17.4	38.4	18.1	38.0	20.4	34.6	11.5

Climatological Data for February, 1910.
DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

GENERAL SUMMARY.

Warm weather prevailed throughout the district at the opening of the month, but on the 2d a change to cooler took place. Moderately cool weather continued until the 8th when a cold wave overspread the district, which continued until the 10th. From the 10th to the 15th, mild temperatures prevailed and maximum readings above 70° occurred throughout the district on the 14th. From the 16th to the 19th the severest cold wave of the month was experienced. From the 20th to the close of the month temperature conditions were generally moderate, except that there was a cool wave on the 22-23d.

Precipitation was mainly in the form of snow in the northern and western, and rain in the southern portions of the district; however, snow and sleet were recorded as far south as central Louisiana on the 17th. The precipitation was distributed through 5 well-defined periods, except that in the Texas and New Mexico areas the precipitation was generally light and scattered. The first period of precipitation was on the 2-3d, when light snows occurred in the northern and moderately heavy rains in the southern portions of the district. The second period occurred from the 8th to the 11th; the amounts were generally light, except that moderately heavy rains fell in Louisiana on the 11th. The third period of precipitation occurred on the 15-16th in the western and 16-18th in the eastern portion of the district and during this time light to heavy snows occurred as far south as central Lousiana. The fourth period of precipitation occurred from the 20th to 24th, and the fifth from the 26th to 28th. Precipitation was generally light during these last two periods, except that heavy rains fell in Arkansas and Louisiana, and the Mississippi area. Taken as a whole, the precipitation was well distributed throughout the month.

TEMPERATURE.

Abnormally low average temperatures prevailed during the month, the mean being below the normal over the entire district, except at a few scattered stations in southeastern Louisiana and the central portion of the Mississippi area. The greatest deficiency, more than 5°, occurred in southwestern Arkansas and southwestern Oklahoma; elsewhere the deficiency ranged from 1° to 3°. The maximum temperatures reached, or exceeded, 70° in all portions of the district, except in the Tennessee area, and the highest recorded was 87° at Lafayette, La., on the 22d. The minimum temperatures continued low throughout the month, and on the 17th unusually cold weather prevailed in all portions of the district when temperatures from −8° to −32° were recorded in the western and extreme northern portions, and freezing occurred to the Gulf coast. The lowest temperature recorded was −32° at Elizabethtown, N. Mex.

Monthly mean temperatures and departures from the normal for the various States and areas are reported as follows: Colorado area, 27.8°, −1.8°; New Mexico area, 33.6°, −2.1°; Texas area, 27.5°, −1.6°; Kansas area, 31.4°, 0.0°; Oklahoma, 36.7°, −1.4°; Missouri area, 32.0°, −2.0°; Tennessee area, 36.0°, −4.4°; Arkansas, 39.0°, −2.2°; Mississippi area, 44.4°, −2.6°; Louisiana, 49.9°, −1.6°.

PRECIPITATION BY DRAINAGE AREAS.

Arkansas River and tributaries.—There was less than the normal amount of precipitation throughout the Arkansas Basin, except at widely scattered stations. Over those stretches of the Arkansas proper that lie in Colorado, Kansas, and Oklahoma, the precipitation from 69 stations averaged 0.84 inch, being about 0.2 inch below the normal. Less than half the normal precipitation occurred over the Cimarron Valley, where the amounts from 16 stations averaged only 0.39 inch. The precipitation was uniformly light throughout the Canadian Valley, but the deficiency was most pronounced in Oklahoma. The amounts from 59 stations averaged 0.40 inch, being about half the normal amount. There was an average of about 1.00 inch of precipitation over the Verdigris and Neosho valleys, and a general deficiency of about half an inch. The precipitation over that portion of the Arkansas Basin below the Oklahoma-Arkansas line ranged between 1 and 5 inches; the amounts from 16 stations averaged 3.09 inches, being about 0.2 inch below the normal.

Red River and tributaries.—Very little precipitation occurred over the stretches of this basin in New Mexico, Texas, and Oklahoma, except that the amounts were heavy at a few stations in northeastern Texas and southeastern Oklahoma. Above the Texas-Arkansas line the amounts from 37 stations averaged 0.83 inch, being about half an inch below the normal. Over those portions of the valley that lie in Arkansas and Louisiana the precipitation was heavier and ranged generally between 3 and 9 inches; the amounts from 17 stations averaged 4.83 inches, being about 0.2 inch above the normal.

Mississippi south of St. Louis and small tributaries.—Except in scattered localities, the precipitation was above the normal throughout this drainage area. In the immediate Mississippi Valley, the amounts from 40 stations averaged 4.55 inches, about 0.3 inch above the normal. There was an excess of nearly half an inch over the Valley of the Meramec. The precipitation was unevenly distributed over the White River Basin; the amounts from 16 stations averaged 3.09 inches, being about 0.2 inch below the normal. The precipitation was well distributed over the Yazoo Basin; the amounts from 24 stations averaged 5.20 inches, being about 0.4 inch above the normal. There was an average of 4.89 inches over the Valley of the Big Black and the average excess was about 0.4 inch. Heavy precipitation occurred generally throughout the Ouachita Valley; the amounts from 20 stations averaged 4.83 inches and the average excess was about 0.7 inch.

Louisiana coastal plain.—Less than the normal amount of precipitation occurred over this area, except that there was an excess at a few stations in the extreme eastern portion. The amounts reported from 22 stations averaged 3.80 inches, being about 1.2 inch below the normal.

Monthly precipitation and departures from the normal for the various States and areas are reported as follows: Colorado area, 0.90, −0.03; New Mexico area, 0.31, −0.26; Texas area, 0.62, −0.57; Kansas area, 0.67, −0.47; Oklahoma, 0.77, −0.35; Missouri area, 3.28, +0.18; Tennessee area, 4.54, +0.22; Arkansas, 3.66, −0.01; Mississippi area, 5.15, +0.18; Louisiana, 4.61, −0.48.

SNOWFALL.

Snow, ranging from light to heavy, fell in all portions of the district, except southern Louisiana. The amounts were heaviest in the higher levels of the Colorado area and in the northeastern portion of the district. The heaviest fall recorded was 65.0 inches at Marshall Pass, Colo., and there was from 8.5 to 29.4 inches over the Missouri area. The most general snows fell on the 16-17th. The warm days during the month were favorable for packing and solidifying the snows in the gulches of the mountain regions, and, generally speaking, the drifts were in good condition to last well into the summer.

The average snowfall (in inches), for the various States and areas derived from the records of such stations as reported snow, is as follows: Colorado area, 13.6; New Mexico area,

3.9; Texas area, 1.8; Kansas area, 3.2; Oklahoma, 4.0; Missouri area, 14.8; Tennessee area, 9.4; Arkansas, 5.9; Mississippi area, 3.9; Louisiana, 3.0.

RIVERS.

In Oklahoma all streams remained nearly stationary and were below the normal February stage. There was a gradual fall in the Arkansas above the Arkansas line. The upper portion of the Neosho was frozen from the 23d to the 26th. The lower Arkansas was low throughout the month. The highest stage at Little Rock was 5.4 feet on the 28th.

No changes worthy of mention took place in the Red River above Fulton, Ark.; the monthly range was less than 1 foot. At Fulton, the stages ranged from 6 feet on the 16th to 12.8 feet on the 28th. The stages were low at Shreveport and Alexandria throughout the month. The highest stage at Shreveport was 2.2 feet on the 28th and at Alexandria 11.0 feet on the 6th.

There was a sharp rise in the upper Ouachita during the last 7 days of the month, and the stage at Camden was 20.2 feet on the 28th. At Monroe the stage ranged from 11.2 feet to 19.6 feet, and a general rise was in progress at the close of the month.

Below St. Louis the Mississippi was rising at all stations at the close of the month, with stages as follows: Memphis, 26.4; Helena, 31.0; Arkansas City, 30.1; Vicksburg, 24.3; Natchez, 23.4; Baton Rouge, 17.1; Donaldsonville, 12.5; and New Orleans, 8.3.

NOTES.

In southern Kansas moderate weather during the first half of the month permitted much outdoor work, which was prosecuted along all lines. Building was especially active; roads improved rapidly; transportation was not interrupted; and business of all kinds improved. During the latter half, cold weather interfered with all outdoor work and much more care was required in the shipment of perishable products.

Reports from southern Missouri state that winter wheat on uplands suffered some damage and peach buds were seriously injured by the low temperature on February 18. The more or less rapid changes from brief warm to cold periods were generally unfavorable for shippers and dealers in perishable products.

Low stages in the Arkansas River forced the suspension of navigation during the greater part of the month.

A severe local storm struck the town of Leland, Miss., about 4 a. m., February 27, doing considerable damage to smokestacks, storage sheds, and roofs of the Leland Oil Works, and some minor damage to roofs and fences in other portions of the town. The storm moved from the south toward the north; the path of greatest destruction being about 40 yards wide, but without evidence of rotary winds.

TABLE 1.—*Climatological data for February, 1910. District No. 7, Lower Mississippi Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Colorado.																				
Blaine	Baca	3,935	18	31.8	− 0.8	76	14	−10	17	53	0.42	− 0.09	0.20	4.2	3	9	14	5	w.	M. M. Myers.
Buena Vista	Chaffee	7,955	10	22.6	.....	47	24†	−27	17	44	0.45	.....	0.40	6.0	2	21	2	5	nw.	C. A. Short.
Calhan	El Paso	6,700	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. B. Rice.
Canon City	Fremont	5,329	22	35.5	+ 0.3	66	14	− 7	17	42	0.78	+ 0.24	0.58	9.0	3	12	14	2	se.	Thos. J. Tynan.
Colorado Springs	El Paso	6,098	30	26.6	− 3.2	59	14	−19	17	48	0.54	+ 0.22	0.31	8.0	5	11	14	3	.....	Colorado College.
Cripple Creek	Teller	9,396	9	.....	.....	.....	.....	.....	.....	.....	0.06	.....	0.04	4.0	2	.....	.....	.....	.....	F. G. Willis.
Cuchara Camps	Huerfano	8,200	.....	.....	.....	.....	.....	.....	.....	.....	1.43	.....	0.78	16.5	6	23	2	3	sw.	Geo. A. Mayes.
Eads	Kiowa	4,209	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Lauck.
Fairview	Custer	9,500	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Elizabeth L. Gray.
Florence	Fremont	5,185	1	33.6	.....	67	14	−11	17	42	0.85	.....	0.67	8.5	3	24	1	3	se.	W. G. Fish.
Garfield	Chaffee	9,510	.....	.....	.....	.....	.....	.....	.....	.....	2.33	.....	0.35	46.0	12	15	4	9	.....	Lloyd N. Felton.
Glen Eyrie	El Paso	6,500	18	25.4	− 4.0	64	14	−23	12	53	0.63	+ 0.08	0.49	7.0	4	14	11	3	n.	C. Nickell.
Hampe	Elbert	5,400	17	26.1	− 1.0	65	14	−16	17	50	0.18	− 0.16	0.07	2.8	4	14	6	8	s.	W. Hamp.
Hermit Lake	Custer	10,000	.....	.....	.....	.....	.....	.....	.....	.....	1.96	.....	0.68	25.0	8	8	9	11	sw.	Jonh E. Graham.
Hoehne (near)	Las Animas	5,700	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. DeBusk.
Holly	Prowers	3,380	15	33.6	.....	76	14	− 3	17	51	T.	− 0.30	T.	T.	0	17	8	3	se.	R. I. Arneson.
Lake Moraine	El Paso	10,265	16	16.2	− 5.2	42	24	−28	17	46	0.81	− 0.21	0.45	13.7	7	6	19	3	sw.	Clyde C. Mc Reynolds.
Lamar	Prowers	3,592	20	32.8	− 0.3	74	25	− 4	17	50	0.70	+ 0.21	0.40	7.0	4	20	5	3	ne.	J. T. Lawless.
Las Animas	Bent	3,899	42	33.0	+ 1.0	71	25	− 9	17	49	1.07	+ 0.69	0.34	8.0	4	16	2	10	s.	F. M. Tague.
La Veta Pass	Costilla	9,000	.....	.....	.....	.....	.....	.....	.....	.....	1.39	.....	0.85	13.4	4	9	14	5	w.	Norman R. Lively.
Leadville	Lake	10,248	14	15.6	− 3.0	41	1†	−23	17	44	1.14	− 0.52	0.27	17.5	11	.....	.....	.....	n.	U. S. Weather Bureau.
Limon (near)	Elbert	5,360	3	26.6	.....	64	14	−13	17	45	T.	.....	T.	T.	0	23	2	3	sw.	John Lesher.
Marshall Pass	Saguache	10,846	7	.....	.....	.....	.....	.....	.....	.....	2.86	.....	0.41	65.0	13	10	7	11	w.	W. D. Lillard.
North Lake	Las Animas	8,700	.....	.....	.....	.....	.....	.....	.....	.....	1.62	.....	1.04	19.5	6	16	2	10	nw.	James W. Ingmire.
Pueblo	Pueblo	4,734	22	30.6	− 1.2	70	14	−17	17	45	0.52	+ 0.07	0.30	6.9	4	15	11	2	nw	U. S. Weather Bureau.
Rockyford (near)	Otero	4,177	21	31.4	.....	72	14	−17	17	50	0.27	− 0.07	0.17	2.0	2	16	1	11	w.	P. K. Blinn.
St. Elmo	Chaffee	9,500	.....	.....	.....	.....	.....	.....	.....	.....	1.42	.....	0.30	15.2	10	16	5	7	sw.	Daniel Clark.
Salida	...do	7,035	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. D. L. Buell.
Santa Clara	Huerfano	8,250	15	26.2	− 2.7	58	25	−17	17	38	1.25	− 0.21	0.65	21.0	6	10	16	2	.....	Lincoln Morris.
Sheridan Lake	Kiowa	4,065	9	30.0	.....	71	14	− 7	17	60	T.	.....	T.	T.	0	22	0	6	sw.	Howard Gamble.
Stonewall	Las Animas	8,000	4	.....	.....	.....	.....	.....	.....	.....	0.66	.....	0.44	13.0	4	13	13	2	.....	J. W. Shouse.
Trinidad	...do	5,994	14	.....	.....	.....	.....	.....	.....	.....	1.12	+ 0.26	0.48	19.0	5	16	8	4	.....	Mrs. Maggie Butler.
Victor (near)	Teller	10,100	6	26.2	.....	52	22	−11	16	44	0.25	.....	0.10	11.0	4	22	4	2	e.	Fred Jones.
Vilas	Baca	3,935	19	.....	.....	.....	.....	.....	.....	.....	0.10	− 0.36	0.10	1.0	1	17	8	3	sw.	Carrie Konkel.
Westcliffe	Custer	7,864	16	24.4	− 2.0	53	14	−30	17	46	0.36	− 0.28	0.30	7.0	3	6	7	15	nw.	Zack Jordan.
Winfield	Chaffee	9,765	.....	.....	.....	.....	.....	.....	.....	.....	0.29	.....	0.12	6.4	8	7	16	5	w.	John G. Payne.
Wortman	Lake	11,250	9	.....	.....	.....	.....	.....	.....	.....	3.38	.....	0.60	53.0	10	5	8	15	nw.	Geo. C. Wortman.
New Mexico.																				
Abbott	Mora	5,771	.....	.....	.....	74	28	−20	17	.....	0.18	.....	0.18	2.0	2	13	14	1	nw.	El Paso & Southwest. R. R.
Albert	Union	4,700	19	37.8	− 1.3	75	13	− 8	16	43	0.36	− 0.09	0.36	3.0	1	20	4	4	s.	Andrew Knell.
Arch (near)	Roosevelt	4,634	1	39.5	.....	65	25†	−10	16†	50	0.00	.....	0.00	0.0	0	17	0	11	n.	Wm. A. Elliott.
Aurora	Colfax	8,849	.....	.....	.....	.....	.....	.....	.....	.....	1.02	.....	0.38	15.5	4	4	17	7	nw.	Miss Juanita Lucero.
Bell Ranch	San Miguel	4,500	11	36.6	.....	75	14	−13	17	53	0.14	− 0.37	0.14	2.0	1	19	8	1	sw.	C. M. O'Donel.
Black Lake	Colfax	8,348	.....	.....	.....	.....	.....	.....	.....	.....	0.57	.....	0.27	6.4	4	12	12	4	w.	Ralph T. Martinez.
Cabeza	San Miguel	5,406	.....	.....	.....	.....	.....	.....	.....	.....	0.12	.....	0.10	1.3	2	13	11	4	w.	El Paso & Southwest. R. R.
Campana	...do	4,493	.....	.....	.....	.....	.....	.....	.....	.....	0.18	.....	0.18	2.0	1	13	9	6	w.	Do.
Chacon	Mora	9,000	.....	.....	.....	.....	.....	.....	.....	.....	1.35	.....	0.45	16.5	5	4	20	4	w.	Alfredo Lucero.
Cimarron (near)	Colfax	6,385	6	31.6	.....	64	14	−18	17	51	0.20	.....	0.20	4.0	1	12	12	4	e.	Wm. French.
Clayton	Union	5,178	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. W. W. Chilton.
Clovis	Curry	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Mendenhall.
Cuervo	Guadalupe	4,849	.....	41.2	.....	70	14	0	17	48	0.02	.....	0.02	0.0	1	19	8	1	e.	El Paso & Southwest. R. R.
Dawson	Colfax	6,396	.....	.....	.....	.....	.....	.....	.....	.....	0.30	.....	0.30	3.0	1	22	1	5	.....	Do.
Dorsey (near)	...do	6,000	8	.....	.....	62	25	− 8	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. T. Lambert.
Elizabethtown	...do	8,465	4	20.8	.....	49	13	−32	17	55	1.16	.....	0.60	11.0	3	15	9	4	w.	Miss Mabel Carrington.
Folsom	Union	6,399	10	.....	.....	.....	.....	.....	.....	.....	0.53	0.00	0.28	5.3	6	19	5	4	sw.	David Rope.
Fort Union	Mora	6,835	50	30.2	− 4.7	65	14	−23	17	49	0.07	− 0.38	0.07	1.0	1	22	0	6	nw.	M. C. Needham.
Hayden	Union	4,444	1	33.4	.....	72	14	−12	16	33	0.16	.....	0.16	2.0	1	17	0	11	n.	Geo. L. Cook.
Johnsons Park	Colfax	6,722	.....	.....	.....	.....	.....	.....	.....	.....	0.05	.....	0.05	1.0	2	21	5	2	n.	A. J. Meloche, jr.
Lake Alice	...do	7,160	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Raton Water Co.
Logan	Quay	3,851	4	36.8[a]	.....	75[a]	14	−14[a]	17	58[a]	0.18	.....	0.18	2.0	1	26	1	1	ne.	John B. Reneau.
Los Alamos	San Miguel	6,789	5	.....	.....	.....	.....	.....	.....	.....	0.33	.....	0.19	5.0	3	18	6	4	w.	Wm. Frank, ar.
Lykins (near)	Roosevelt	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. G. Buchanan.
Maxwell (near)	Colfax	5,894	3	.....	.....	.....	.....	.....	.....	.....	0.17	.....	0.17	2.0	2	.....	.....	.....	.....	D. N. Jackson.
Melrose	Curry	4,400	2	37.4	.....	72	14	− 5	17	48	0.03	.....	0.03	T.	1	21	3	4	sw.	Miss Lois E. Porter.
Miami Ranch	Colfax	6,000	2	31.0[a]	.....	63[a]	24†	−24[b]	17	45[b]	0.18	.....	0.18	2.5	2	15	7	6	w.	Farmers' Devel. Co.
Montoya	Quay	4,335	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0.5	0	9	13	6	w.	El Paso & Southwest. R. R.
Nara Visa	...do	4,225	4	36.4	.....	75	14	− 8	17	48	0.20	.....	0.20	3.0	1	14	5	9	e.	Willard Belknap.
Pasamonte	Union	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	.....	0.32	4.0	1	15	3	10	w.	J. J. Heringa.
Raton	Colfax	6,663	12	32.3	− 0.3	67	14	−14	17	45	0.20	− 0.46	0.20	3.5	2	22	2	4	s.	Prof. R. C. Crum.
Rociada	San Miguel	8,200	6	29.0	.....	56	14†	−29	17	56	1.07	.....	0.55	13.0	3	15	11	2	w.	Chas. F. Rudolph.
Roy	Mora	5,884	.....	.....	.....	.....	.....	.....	.....	.....	0.05	.....	0.05	0.5	2	19[b]	5[b]	2[b]	ne.	El Paso & Southwest. R. R.
San Jon	Quay	4,200	3	38.2	.....	75	14	− 9	17	51	0.08	.....	0.08	1.0	1	21	4	3	sw.	Jesse T. White.
Solano	Mora	5,622	1	33.4	.....	70	14	−11	17	52	0.19	.....	0.19	2.5	2	23	5	0	s.	F. M. Hughes.
Springer	Colfax	5,857	14	29.8	− 2.2	64	14	−24	17	52	0.07	− 0.24	0.07	1.0	1	26	2	0	w.	Atch., Top. & S. Fe. Ry.
Taylor	...do	5,661	.....	.....	.....	.....	.....	.....	.....	.....	0.27	.....	0.27	3.0	1	24	2	2	w.	Do.
Trementina	San Miguel	5,000	2	.....	.....	.....	.....	.....	.....	.....	0.32	.....	0.32	4.0	1	22	4	2	e.	Miss Alice Blake.
Tucumcari(1)	Quay	4,194	5	40.2	.....	74	14	− 3	17	45	0.04	.....	0.04	0.5	1	22	5	1	ne.	John F. Seaman.
Valley	Union	5,000	5	.....	.....	.....	.....	− 8	17	.....	0.59	.....	0.32	7.0	4	21	3	4	s.	Mrs. M. Letitia Payne.
Vermejo Park	Colfax	7,600	6	26.8	.....	57	14	−26	17	48	0.32	.....	0.32	4.0	2	15	9	4	w.	H. W. Adams.
Wagon Mound (near)	Mora	6,300	1	29.6	.....	68	14	−24	17	48	0.10	.....	0.10	1.0	1	18	5	5	sw.	Guy L. Barnes
Texas.																				
Amarillo	Potter	3,676	18	35.6	− 1.6	76	14	− 4	17	44	0.17	− 0.71	0.17	1.7	1	15	9	4	n.	U. S. Weather Bureau.
Arthur City	Lamar	590	18	.....	.....	.....	.....	.....	.....	.....	1.40	− 0.65	0.60	6.0	3	6	6	16	sw.	J. B. Wheeler.
Bonham	Fannin	566	7	43.4	.....	77	15	− 5	18	53	1.64	.....	0.84	4.0	4	13	5	10	n.	B. S. Lovelace.
Canadian	Hemphill	2,339	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Canadian Academy.
Channing	Hartley	.....	5	.....	.....	.....	.....	−10	17	.....	T.	.....	T.	T.	0	18	0	10	nw.	C. F. Land & Inv. Co.
Childress	Childress	1,889	17	.....	.....	.....	.....	.....	.....	.....	0.10	− 0.62	0.10	1.0	1	13	8	7	s.	W. E. Davis.
Chillicothe	Hardeman	1,406	2	.....	.....	.....	.....	.....	.....	.....	0.12	.....	0.08	0.4	3	6	6	16	sw.	A. B. Connor.
Clarendon	Donley	2,719	5	39.6	.....	80	14	2	17	47	T.	.....	T.	T.	0	23	2	3	se.	J. B. McClelland.
Clarksville	Red River	442	5	45.2	.....	77	16	5	18	47	1.55	.....	0.72	3.5	4	13	14	1	.....	J. W. O'Neill.
Claude	Armstrong	3,397	5	.....	.....	.....	.....	.....	.....	.....	0.10	.....	0.10	1.0	1	.....	.....	.....	.....	Ft. Worth & Denver Cy. Ry.
Dalhart ‡	Dallam	3,998	5	30.4	.....	75[a]	14	−12	17	60[a]	0.03	.....	0.03	0.3	1	13	11	4	n.	F. L. Kennard.
Denison	Grayson	.....	2	.....	.....	.....	.....	.....	.....	.....	0.83	.....	0.66	1.0	4	11	2	15	n.	J. B. Gibson.
Finley	Bowie	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.70	.....	2.90	4.0	4	12	0	16	n.	Mrs. M. C. Myers.
Henrietta	Clay	915	15	44.6	+ 2.0	82	1	6	18	54	1.18	+ 0.10	0.83	1.0	2	17	1	10	s.	C. K. Brown.
Hereford	Deaf Smith	3,750	5	37.0	.....	70	28	5	16	50	T.	.....	T.	T.	0	12	15	1	sw.	A. C. Elliott.
Lewis Ferry	Bowie	.....	1	.....	.....	.....	.....	.....	.....	.....	1.38	.....	0.80	2.0	5	7	5	16	e.	P. G. Ruff.

TABLE 1.—*Climatological data for February, 1910. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Texas—Cont'd.																				
Memphis	Hall	2,067	5	40.2	.....	73	1	4	17	57	T.	.....	T.	T.	0	17	6	5	.....	Ft. Worth & Denver Cy. Ry.
Miami	Roberts	2,743	4	36.1	.....	78	14	− 5	17	45	0.10	.....	0.10	1.0	1	22	2	4	n.	J. E. Kinney.
Mobeetie	Wheeler	.....	1	.....	.....	.....	.....	.....	.....	.....	0.10	.....	0.10	1.0	1	12	9	7	s.	R. A. Choate.
Nazareth	Castro	.....	4	35.8	.....	70	14†	− 6	17	58	T.	.....	T.	T.	0	21	2	5	sw.	Rev. P. A. Kaelin.
Ochiltree	Ochiltree	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. J. Allen.
Pampa	Gray	3 226	1	33.6	.....	78	1	−11	16	49	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	B. E. Finley.
Paris	Lamar	592	21	40.4	− 1.1	75	15	0	18	50	1.75	− 0.27	0.65	4.8	3	5	4	19	n.	Robert A. Miller.
Pierons	Hutchinson	.....	3	33.3	.....	77	14	−11	17	55	0.05	.....	0.03	0.5	2	18	3	7	sw.	C. S. Solomon.
Quanah	Hardeman	1,563	5	39.2	.....	72	2	8	17	46	0.03	.....	0.02	0.3	2	21	0	7	s.	Wm. H. Crawford.
Ringo Crossing	Hopkins	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.47	.....	0.77	2.0	3	7	3	18	e.	H. J. Palmer.
Romero	Hartley	.....	.....	36.8[c]	.....	76[c]	25†	−10	17	55[c]	0.50	.....	0.50	5.0	1	17[c]	4[c]	4[c]	n.	R. S. Chamberlain.
Sherman	Grayson	745	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. A. Gibbs.
Sulphur Springs	Hopkins	530	18	41.1	− 5.3	74[a]	15	2	18	45[a]	1.94	− 0.80	0.71	4.5	4	8	3	17	n.	O. M. Pate.
Texline	Dallam	4,694	5	.....	.....	.....	.....	.....	.....	.....	0.20	.....	0.20	2.0	1	16	3	9	n.	Ft. Worth & Denver Cy. Ry.
Tulia	Swisher	3,501	12	37.2	.....	75	14	− 4	17	60	T.	− 0.63	T.	T.	0	4	23	1	n.	Lou Mulhall.
Wichita Falls	Wichita	958	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Gould.
Winfield	Titus	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.74	.....	2.40	4.0	6	7	10	11	se.	J. C. Bostick.
Kansas.																				
Anthony	Harper	1,329	13	32.8	.....	72	14	6	23	41	0.99	− 0.01	0.50	6.8	7	9	10	9	s.	R. H. Beebe.
Ashland	Clark	1,951	22	33.3	− 0.2	75	14	3	17	53	0.60	− 0.09	0.50	6.0	5	13	12	3	n.	C. W. Carson.
Burlington	Coffey	1,010	17	30.6	+ 0.6	65	14	2	23	40	0.63	− 0.76	0.30	1.0	4	10	13	5	s.	O. E. Sanford.
Chanute	Neosho	940	6	32.0	.....	65	14	5	18	34	1.63	.....	0.50	7.0	5	13	10	5	n.	Chase W. Brown.
Cimarron	Gray	2,700	4	31.4[f]	.....	74[f]	14	2[f]	17	46[f]	0.30[f]	.....	0.30[f]	2.0[f]	1[f]	12[f]	6[f]	4[f]	s.[f]	Fred Mallonee.
Coldwater	Comanche	2,090	13	31.8	.....	74	14	0	17	44	0.23	− 0.51	0.15	7.0	3	18	4	6	n.	J. L. Stanley.
Columbus	Cherokee	898	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. E. Skinner.
Coolidge	Hamilton	3,346	13	31.8	+ 2.1	79	14	− 1	18	58	.....	.....	.....	0.3	.....	14	10	4	nw.	W. R. Padley.
Cottonwood Falls	Chase	1,234	6	30.4	.....	66	14	1	23	38	0.40	.....	0.20	T.	3	15	4	9	n.	E. B. Greene.
Council Grove	Morris	1,191	1	29.6	.....	66	14	0	23	41	0.90	.....	0.40	3.0	3	17	4	7	n.	Jas. Sharpe.
Cunningham	Kingman	1,680	26	33.1[b]	+ 1.8	71[c]	14	2[a]	23	40[d]	0.22	− 0.50	0.20	2.2	2	14	9	5	n.	W. H. Morton.
Dodge City	Ford	2,513	36	29.8	− 1.3	72	14	1	23	43	0.31	− 0.40	0.18	4.5	5	13	12	3	n.	U. S. Weather Bureau.
El Dorado	Butler	1,291	8	31.8	.....	67	14	4	23	32	0.95	.....	0.50	1.5	3	20	0	8	s.	W. Y. Miller.
Ellinwood	Barton	1,788	35	31.2	+ 2.1	73	14	0	23	40	0.19	− 0.83	0.10	2.0	3	9	14	5	s.	Martin Musil.
Emporia	Lyon	1,138	29	30.6	− 0.3	67	14	1	23	36	0.42	− 0.87	0.24	0.0	2	17	5	6	n.	W. H. Boyles.
Eureka	Greenwood	1,093	14	31.2	.....	68	14	3	17†	41	0.68	− 0.53	0.33	0.5	5	15	6	7	s.	T. C. Peffer.
Fall River	...do	925	14	32.0[a]	− 1.4	70[a]	14	3[a]	18	38[a]	1.37	− 0.05	0.50	3.5	6	14	9	5	n.	J. McDaniel.
Fargo	Seward	.....	1	.....	.....	.....	.....	.....	.....	.....	0.10	.....	0.10	1.0	1	19	3	6	se.	Frank Swink.
Fredonia	Wilson	864	7	32.0	.....	68	14	3	18	35	1.37	.....	0.50	6.0	5	14	5	9	nw.	B. W. Holmes.
Garden City	Finney	2,836	21	31.1	+ 1.9	73	14	0	17	47	0.25	− 0.57	0.15	1.1	2	18	5	5	n.	B. F. Stocks.
Great Bend	Barton	1,850	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Pritchard.
Greensburg	Kiowa	2,235	3	31.3	.....	72	14	1	17†	44	0.75	.....	0.60	7.5	2	21	6	1	s.	C. C. Raymond.
Grenola	Elk	1,116	23	30.6	− 1.0	70	14	1	18	40	0.78	− 0.57	0.27	3.0	4	16	4	8	n.	R. M. Lawyer.
Howard §	...do	1,112	3	.....	.....	.....	.....	.....	.....	.....	0.61	.....	0.32	3.0	3	17	2	9	n.	J. W. Eby.
Hugoton	Stevens	.....	6	33.4	.....	80	14	−11	17	54	0.59	.....	0.31	8.0	4	20	5	3	s.	E. M. Anderson.
Hutchinson	Reno	1,535	20	31.4	+ 0.4	66	14	3	23	35	0.19	− 1.15	0.12	0.8	3	15	8	5	s.	E. S. Webster.
Independence	Montgomery	816	37	33.1	− 2.0	70	14	3	18	38	1.92	− 0.07	0.85	7.6	7	10	8	10	s.	F. L. Kenoyer.
Iola	Allen	984	4	29.6	− 2.4	65	1	4	23	33	0.89	− 0.22	0.28	4.4	4	15	4	9	n.	U. S. Weather Bureau.
Jetmore	Hodgeman	2,268	9	31.0	.....	73	14	− 2	17	43	0.17	.....	0.15	3.2	2	11	14	3	sw.	James Aiken.
Kingman	Kingman	1,504	2	31.9	.....	68	14	4	23	36	0.25	.....	0.16	3.2	4	16	9	3	sw.	B. B. Anawalt.
La Crosse	Rush	2,061	8	30.8	.....	72	14	− 1	23	42	0.26	.....	0.16	3.0	3	14	10	4	nw.	Rodney Torrey.
Lakin	Kearney	2,993	20	30.3	− 1.8	71	14	− 8	17	50	0.08	− 0.74	0.08	1.0	1	17	9	2	ne.	C. H. Longstreth.
Larned	Pawnee	2,090	25	29.8	.....	73	14	1	23	42	0.15	− 0.55	0.10	1.0	2	15	8	5	n.	H. H. Wolcott.
Lebo	Coffey	1,138	24	28.8	− 1.5	63	1†	1	23	33	1.07	− 0.48	0.60	1.5	4	14	5	9	n.	J. J. Bowman.
Le Roy	...do	990	1	.....	.....	.....	.....	.....	.....	.....	0.61	.....	0.23	0.9	5	16	2	10	.....	F. W. Schmitt.
Liberal	Seward	2,843	3	32.5	.....	77	14	−10	17	48	0.30	.....	0.20	3.0	2	14	5	9	sw.	Dr. R. T. Nichols.
Mc Pherson	Mc Pherson	1,495	21	30.4	+ 1.1	64	14	1	23	32	0.10	− 1.09	0.04	T.	3	16	3	9	nw.	Mrs. Nelia Poling.
Macksville	Stafford	2,032	21	31.0	− 0.3	71	14	1	23	41	0.06	− 0.58	0.03	1.5	2	14	8	6	n.	Ed. F. Haberlein.
Madison	Greenwood	1,074	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. A. David.
Marion	Marion	1,310	17	30.1	+ 1.1	64	1†	0	23	34	0.97	− 0.19	0.72	T.	3	12	12	4	.....	D. D. McIntosh.
Medicine Lodge	Barber	1,475	17	31.6	− 2.0	73	14	2	23	46	0.28	− 0.51	0.07	1.8	5	13	13	2	n.	S. P. Garrison.
Medora	Reno	1,484	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. L. Richenbrode.
Mount Hope	Sedgwick	1,410	13	.....	.....	.....	.....	.....	.....	.....	0.57	− 0.49	0.30	.....	4	14	6	8	se.	H. N. Renfrew.
Neosho Rapids	Lyon	1,092	5	.....	.....	.....	.....	.....	.....	.....	1.06	.....	0.50	0.5	3	18	0	10	s.	Susan P. Whipple.
Ness City	Ness	2,260	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. K. Barnd.
Newton	Harvey	1,454	13	30.4	+ 0.2	67	14	2	23	50	0.74	− 0.22	0.57	1.4	4	18	5	5	sw.	C. F. Walden.
Norwich	Kingman	1,496	14	32.8	− 1.4	68	14	4	23	36	0.85	+ 0.06	0.58	1.8	5	8	17	3	se.	N. I. Farris.
Oswego	Labette	899	16	33.0	− 1.6	66	1	− 2	18	33	1.78	+ 0.03	0.48	9.2	6	12	5	11	se.	Jos. M. Currigan.
Pratt	Pratt	1,950	15	31.8	+ 0.4	69	14	3	22	37	0.40	− 0.10	0.20	2.1	3	16	6	6	.....	E. H. Ellsworth.
Rome	Sumner	1,218	24	32.7[a]	− 0.9	69[a]	14	6[a]	17†	40[a]	0.86	− 0.37	0.50	2.1	4	16	6	6	n.	D. M. Adams.
Sedan	Chautauqua	834	25	31.9	− 1.4	71	13	3	17	42	0.80	− 0.74	0.25	4.9	6	14	3	11	n.	A. Y. Buckles.
Toronto	Woodson	1,040	13	31.8	+ 0.9	70	14	0	17†	48	0.95	− 0.81	0.40	2.0	3	17	0	11	s.	M. A. Webb.
Ulysses	Grand	3,027	19	31.5[c]	+ 0.2	76[d]	14	− 7[c]	17	57[c]	0.30	− 0.37	0.10	3.0	3	9	17	2	sw.	T. W. Marshall.
Walnut	Crawford	940	8	31.2	.....	67	1	− 4	18	35	1.88	.....	0.55	11.5	5	17	2	9	sw.	R. C. Harlan.
Wichita	Sedgwick	1,377	23	30.8	− 2.2	68	14	2	23	42	0.63	− 0.44	0.39	3.3	5	11	11	6	s.	U. S. Weather Bureau.
Winfield	Cowley	1,124	16	31.2	− 1.1	68	14	4	17	39	0.98	− 0.26	0.70	2.0	4	16	2	10	s.	M. B. Light.
Yates Center	Woodson	1 068	31	30.2[c]	− 0.4	68[c]	14	2[b]	18	47[c]	1.01	− 0.75	0.38	4.0	5	15	7	4	n.	J. W. Tipton.
Oklahoma.																				
Ada	Pontotoc	1,001	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. J. P. McKinley.
Alva	Woods	1,350	6	34.0	.....	75	14	4	17	45	0.60	.....	0.20	6.0	5	17	4	7	s.	L. W. Sandefur.
Apache	Caddo	1,255	1	39.0	.....	74	14	9	24	44	0.82	.....	0.82	T.	1	15	8	5	s.	G. D. Teeter.
Arapaho	Custer	1,575	17	37.8	+ 2.0	75	14	5	17	45	0.24	− 0.43	0.10	2.0	3	18	6	4	n.	Geo. E. Marsh.
Ardmore	Carter	872	9	40.6	.....	78	15	4	18	41	1.63	.....	1.10	1.1	2	11	5	12	n.	H. T. Nisbett.
Bartlesville	Washington	687	4	35.0	.....	70	14	− 2	18	35	1.31	.....	0.50	11.0	6	11	8	9	nw.	Dr. A. P. Owens.
Beaver	Beaver	2,500	14	34.0	+ 1.5	76	14	2	9	48	0.75	+ 0.46	0.30	7.0	4	20	2	6	sw.	W. C. Frazer.
Blackburn	Pawnee	800	6	35.8	.....	73	14	1	18	41	1.10	.....	0.40	13.0	7	15	8	5	n.	J. Landis.
Cache	Comanche	1,350	5	35.6	.....	76	14	− 2	23	54	0.20	.....	0.20	T.	1	15	6	7	n.	Frank Rush.
Calvin	Hughes	713	6	.....	.....	.....	.....	.....	.....	.....	0.25	.....	0.21	0.3	2	12	2	14	n.	Thomas Purcell.
Chandler	Lincoln	865	6	34.2[c]	.....	73[c]	14	1	18†	45[c]	0.50	.....	0.40	5.0	3	13	3	12	s.	Chas. L. Tuttle.
Chattanooga	Comanche	1,150	5	39.5	.....	75	1†	6	18	46	0.63	.....	0.60	0.0	2	16	7	5	s.	Squire Humble.
Chickasha	Grady	1,091	10	40.1	.....	74	1†	8	24	42	0.77	.....	0.65	T.	2	21	3	4	n.	J. C. Good.
Cloud Chief	Washita	1,400	10	39.1	.....	76	14	4	17	49	T.	.....	T.	T.	0	11	14	3	n.	J. P. Stutsman.
Dacoma	Woods	1,337	13	33.6	− 1.1	75	14	0	17	52	0.59	− 0.23	0.25	8.5	5	10	16	2	ne.	R. H. Bruce.
Durant	Bryan	643	10	38.8	.....	78	15	3	19	48	0.65	.....	0.35	3.0	3	9	9	10	n.	Nelson Houk.
Eldorado	Jackson	1,456	4	40.3[b]	.....	76[b]	28	7[a]	17	51[b]	T.	.....	T.	T.	0	6	14	7	se.	T. W. Lanham.
El Reno	Canadian	1,400	19	37.1	+ 0.1	73	14	7	24	38	0.79	.....	0.75	T.	2	19	6	3	n.	Pearl Maddox.
Enid	Garfield	1,269	11	33.1	.....	79	14	8	17†	52	0.66	.....	0.30	5.9	6	14	6	8	n.	Uri. B. Worcester.
Erick	Beckham	2,058	7	37.3	.....	78	14	2	17	50	T.	.....	T.	T.	0	13	12	3	n.	A. W. Hanes.
Fairland	Ottawa	839	11	34.6[d]	− 2.6	68	1	− 5	18[d]	37[d]	1.55	+ 0.01	0.50	7.8	7	13	5	10	s.	C. W. Pryor.

TABLE 1.—*Climatological data for February, 1910. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
***Oklahoma*—Cont'd.**																				
Fort Gibson	Muskogee	556	6								2.66		1.30	6.3	6	14	2	12	e.	John T. Welsh.
Frederick	Tillman	1,293	7	40.4		76	14	9	17	49	0.16		0.16	T.	1	15	7	6	n.	B. B. Bradley.
Gage	Ellis	2,156	8	34.0		78	14	− 3	17	50	0.17		0.10	1.8	4	20	2	6	n.	C. H. Holmes.
Goodwell	Texas	3,300																		S. W. Black.
Gutbrie	Logan	1,000	8																	G. W. Derrick.
Guymon	Texas	3,133	1								0.70		0.40	7.0	2	16	1	9	n.	A. L. Mordt.
Harrington	Roger Mills	2,200	7	36.7		76	14	− 2	17	43						16	7	3	nw.	T. Compton.
Hartshorne	Pittsburg	700	12	41.5	− 1.1	75	15	− 5	18	59	1.00	− 1.90	0.65	1.5	4	10	4	10	n.	Edward Glendenning.
Healdton	Carter	900	17	39.4	− 0.6	78	15			47	0.82	− 0.50	0.42	4.0	3	17	8	3	n.	C. H. Heald.
Helena	Alfalfa	1,396	3	34.8		75	14	5	13	50	0.72		0.30	7.0	5	15	8	5	n.	Frank Horsfall.
Hennessey	Kingfisher	1,166	16	35.9	− 0.7	74	14	9	17†	44	0.80	− 0.44	0.40	8.0	4	10	14	4	n.	W. W. Parks.
Hobart	Kiowa	1,396	7	39.1		72	14†	8	17	42	0.05		0.03	T.	2	13	9	6	n.	Roy Benedict.
Holdenville	Hughes	900	10	37.8		74	15	4	18	41	0.90		0.46	4.0	3	19	4	5	n.	Miss M. Rutherford.
Hooker	Texas	2,999	5	33.2		78	14	−10	17	53	0.25		0.20	2.5	2	6	2	20	n.	H. N. Kelley.
Hurley	Cimarron	3,600	2	32.8		68	14	−16	17	43	0.25		0.25	3.0	1	17	7	4	sw.	C. W. Meyers.
Idabel	McCurtain	474	3								4.59		2.03	3.5	5	12	8	8	s.	M. L. Henderson.
Jefferson	Grant	1,062	17	33.6	− 0.3	73	14	8	23	41	0.38	− 0.41	0.10	5.5	6	12	8	8	n.	T. E. Beck.
Kenton	Cimarron	4,000	11	32.6	− 3.6	69	14	−17	17	50	0.40	− 0.27	0.30	3.5	2	20	2	6	n.	L. A. Wikoff.
Kingfisher	Kingfisher	1,046	13	37.6	+ 0.8	75	14	9	17†	46	0.36	− 0.96	0.13	3.7	4	12	9	7	s.	J. C. Cross.
McAlester	Pittsburg	698	18	41.2		74	15	2	18	42	1.27	− 0.77	0.66	3.6	3	16	3	9	n.	Wm. Noble.
McComb	Pottawatomie	1,200	16	39.4	+ 0.2	74	14	8	18	47	0.60	− 0.34	0.60	6.0	1	8	13	7	n.	Jas. E. McNair.
Mangum	Greer	1,585	18	35.6	− 5.9	86	28	6	17†	58	0.38	− 0.68	0.25	T.	2	16	4	8	nw.	M. J. Northcuff.
Marlow	Stephens	1,292	10	35.6[a]		74[a]	14			46[a]	0.75	− 0.48	0.52	1.0	2	11	4	13	se.	W. B. Anthony.
Meeker	Lincoln	1,030	17	35.9	− 1.5	67	14	− 8	18	40	0.68	− 0.21	0.35	8.8	5	20	1	7	n.	Dr. J. B. Baugh.
Muskogee	Muskogee	614	12	37.6	− 0.7	72	15	− 9	18	36	1.42	− 0.02	1.42	6.0	1	14	0	14	n.	Prof. E. N. Collette.
Mutual	Woodward		4	36.6		78	14	− 1	17	45						16	4	8	s.	Thos. Martin.
Neola	Caddo	1,500	5	37.8		74	14	8	24	46	0.22		0.12	1.2	2	13	10	5	n.	R. N. Schooling.
Newkirk	Kay	1,149	14	34.2[d]	− 0.4	74[d]	14	6[d]	18	42[d]	0.60	− 0.39	0.40	6.0	3	16[e]	2[e]	7[e]	ne.	P. H. Albright & Co.
Norman	Cleveland	1,171	17	38.4	0.0	77	1	5	18	47	1.27	+ 0.38	0.86	5.0	3	7	13	8	n.	Walter H. Meier.
Oakwood	Dewey	1,854		34.0		72	14	1	17	44	0.31		0.20	2.1	3	15	5	8	n.	Dr. F. P. Osborn.
Okeene	Blaine	1,194	7	35.6		75	14	5	17	43	0.23		0.10	2.5	5	13	10	5	s.	Dr. L. H. Murdoch.
Oklahoma	Oklahoma	1,247	21	35.4	− 3.1	71	14	7	23	33	0.53	− 0.45	0.42	1.5	6	10	9	9	n.	U. S. Weather Bureau
Okmulgee	Okmulgee	752	8	38.4		73	1	−12	18	48	0.45		0.45	5.0	1	14	6	8	n.	J. L. Maynard.
Pauls Valley	Garvin	880	11																	A. M. Foss.
Pawhuska	Osage	918	12	35.7	− 0.8	71	14	3	18	43	1.22	− 0.22	0.60	5.0	5	14	6	8	s.	R. C. Block.
Perry	Noble	1,060	13	35.8	+ 0.4	73	14	5	18	38	0.71	− 0.35	0.31	5.0	8	15	4	9	n.	J. A. Douglas.
Ravia	Johnson	796	9	41.1		78	15	− 2	18	48	0.52		0.38	1.3	3	14	4	10	s.	R. G. Guptill.
Sac & Fox Agency	Lincoln	900	18	36.9	− 1.2	72	14	6	18	44	0.67	− 0.44	0.40	4.0	2	24	0	4	n.	D. B. Taylor.
Shawnee	Pottawatomie	1,041	10	35.3[c]		71[c]	1	− 3[a]	18	44[c]	1.46		0.87	6.0	3	11	2	14	s.	Neal R. Clark.
Snyder	Kiowa	1,356	4	40.6[g]		74[g]	14	11[g]	17†	48[g]						12[g]	6[g]	3[g]	n.	Dr. W. G. Woodard.
Stillwater	Payne	880	18	33.8	− 3.1	73	14	5	18	43	0.44	− 0.40	0.22	3.2	10	15	7	6	n.	J. M. Speidel.
Supply	Woodward	2,100	3	34.0		78	14	− 6	17	45	0.50		0.30	5.0	2	17	6	5	s.	A. H. Trumbo.
Tulsa (1)	Tulsa	700	22	38.2		80	14	8	24	35	1.20	+ 0.04	0.92	11.0	5	13	5	10	n.	William Hall.
Vinita	Craig	698	7	34.2[a]		67[a]	1	−12[a]	18	41[a]	2.08[a]		0.87[a]	11.0[a]	7[a]	15	4	9	n.	C. E. Lahman.
Wagoner	Wagoner	588	14	35.0	− 5.2	71	15	− 8	18	38	1.39	+ 0.40	0.60	8.5	6	14	4	10	s.	S. L. Hatfield.
Waukomis	Garfield	1,258	14	35.3	− 1.5	74	14	9	17†	45	0.20	− 0.74	0.10	4.0	3	12	8	8	n.	R. C. Shades.
Waurika	Jefferson	988		41.9		76	14	5	18	46	0.45		0.21	1.5	4	16	6	6	n.	B. A. Swindler.
Weatherford	Custer	1,639	9	36.1		75	14	6	18	49	0.20		0.20	T.	1	14	6	8	n.	M. D. Reed.
Webbers Falls	Muskogee	479	12	36.3	− 3.5	74	15	−10	18	42	1.84	+ 0.12	1.05	3.0	5	9	12	7	se.	B. D. Boulineau.
Whiteagle	Kay	945	5	36.0		73	14	6	18	38	0.70		0.30	4.0	4	9	12	7	n.	J. M. Dankwardt.
Woodward	Woodward	1,886	1	34.7		80	14	− 3	17	44	0.22		0.15	2.2	3	17	6	5	n.	R. A. Boyle.
Missouri.																				
Belle	Maries		18	30.3[a]	− 0.6	65[a]	15	− 1[a]	18	38[a]	3.25[a]	+ 0.67	0.80[a]	21.5[a]	8[a]	7[a]	12[a]	8[a]	nw.[a]	A. J. Wofford.
Birchtree	Shannon	1,200	17	32.6[b]	− 1.3	67[b]	15	−12[b]	18	44[b]	3.16[b]	+ 0.21	1.05[b]	11.5[b]	7[b]	14[b]	3[b]	9[b]	s.[b]	V. H. Kirkendall.
Cape Girardeau	Cape Girardeau	346	5								1.92		0.84	16.0	8	12	9	7	n.	D. L. Albert.
Caruthersville	Pemiscot		20	35.6	− 1.2	64	14	− 4	18	37	4.62	+ 0.37	2.68	4.5	6	14	3	11	n.	H. E. Averill.
Dean	McDonald		11	33.6	− 2.7	67	1	−22	18	55	2.01	+ 0.20	0.90	13.5	6	16	1	11		H. E. Dean.
Doniphan	Ripley	440	6	34.4[a]		65[a]	15	−16[a]	18	43[a]	4.35[a]		1.08[a]	10.0[a]	8[a]	11[a]	3[a]	13[a]	ne.[a]	W. W. Martin.
Farmington	St. Francois	889	3	31.8		67	15	− 8	18	46	6.40		3.00	29.4	8					Miss Carrie Sneed.
Gano	Dent		7	31.8		67	15	− 8	18	39	3.79		1.61	21.3	9	13	3	12	s.	A. C. Leech.
Goodland	Iron	900	5	29.7		65	15	−21	18	46	4.94		1.05	18.0	7	18	0	10	n.	F. M. Adams.
Greenville	Wayne		16	33.6	0.0	65	15	−23	18	54	4.43	+ 1.41	1.18	19.5	8	10	13	5	nw.	A. G. Templeton.
Hollister	Taney			35.0		70	1†	−16	18	51	2.00		0.80	11.0	6	18	0	10	sw.	W. P. Chapman.
Ironton	Iron	925	32	29.1	− 4.2	65	15	−24	18	51	3.89	+ 0.42	1.50	13.0	7	6	11	11	n.	W. H. Delano.
Jackson	Cape Girardeau	458	19	33.6	− 0.8	60	8†	−13	18	40	3.14	− 0.19	1.44	15.0	8	9	5	14	s.	L. M. Bean.
Joplin	Jasper	979	32	33.8		64	14	− 4	18	45	1.67	− 0.64	0.80	12.0	6	14	5	9	sw.	Miss E. Russum.
Koshkonong	Oregon	911	10	34.4		66	15	0	18	46	3.20		0.81	11.0	8	12	6	10	nw.	J. W. Hitt.
Lamar	Barton	964	30	29.8	− 4.5	68	1	− 5	18	48	1.69	− 0.72	0.70	11.5	4	13	4	11	ne.	E. H. Adams.
Marble Hill	Bollinger	420	19	32.0	− 2.6	64	15	−16	18	44	4.76	+ 1.12	1.10	9.8	8	15	4	9	nw.	A. F. Hendricks.
Mountaingrove	Wright	1,490	11	30.0		65	15	− 8	18	31	2.49	− 0.24	1.67	11.0	4	11	4	13	nw.	Mo. Fruit Exp. Station.
Mount Vernon	Lawrence	1,480	34	32.1	− 1.1	66	1	−15	18	43	2.76	− 0.08	1.10	15.0	6	8	12	8	nw.	Dr. O. H. Brown.
Neosho	Newton	1,023	27	33.4	− 2.6	67	1	−19	1	52	3.81	+ 1.41	1.20	23.0	8	14	4	10	nw.	W. O. Buck.
New Madrid	New Madrid	285	16								3.41	− 1.02	2.00	6.0	8	10	3	15	se.	Miss Josie Smith.
Oakfield	Franklin	793	18	31.0	− 0.4	66	15	− 7	18	34	3.18	+ 0.64	1.05	21.5	9	9	11	8	s.	E. E. Stines.
Olden	Howell	1,246	20	34.2	− 0.3	62	15	− 4	18	36	4.02	+ 0.83	1.40	10.0	5	12	6	10	se.	J. D. Evans.
Perryville	Perry	582	1	29.7		72	28	−13	18	50	2.45		1.40	18.0	6	17	0	11	s.	Superintendent of Schools.
Rolla	Phelps	1,092	29	30.9		65	15	− 5	18	39	3.28	+ 0.90	0.74	19.9	9	13	5	10	sw.	Prof. P. J. Wilkins.
Sikeston	Scott	328	15	34.4[a]	− 1.2	62[a]	15	− 7[a]	18	38[a]	3.55	− 0.35	1.45	8.5	7	12	6	9	n.	A. A. Harrison.
Springfield	Greene	1,350	22	28.9	− 4.7	62	15	− 5	18	37	2.24	− 0.03	1.25	15.9	9	14	2	12	se.	U. S. Weather Bureau.
Steelville	Crawford	746	14	28.2[i]		66[i]	15	−23[i]	18	56[i]	1.28[i]	− 1.25	0.42[i]	17.3[i]	6[i]	7[i]	6[i]	6[i]	sw.	Edwin Pumphrey.
Willowsprings	Howell	1,300	17																	John Lovewell.
Kentucky.																				
Blandville	Ballard	445	30	33.3	− 2.1	59	15†	1	18	39	4.16	− 0.49	2.05	6.2	10	10	2	16	nw.	E. W. Horr.
Lynnville	Graves		9	34.9		59	15†	− 5	18	40	5.54		2.89	8.0	9	13	2	13	s.	Wm. Scherffius.
Tennessee.																				
Arlington	Shelby		28																	A. T. B. Etheridge.
Bolivar	Hardeman	450	23	34.4	− 4.9	65	26	− 4	13	51	5.42	+ 1.53	1.68	22.0	7	15	0	13	n.	Miss M. A. Smith.
Brownsville	Haywood	361	25	38.6		65	2†	4	18	47	4.75		1.70		6	10	8	10	n.	Miss Hattie N. Moses.
Covington	Tipton	311	23	34.9	− 6.5	68	15	4	18	32	3.31	− 0.98	2.27	8.0	6	12	0	16	n.	J. S. Ruffin.
Dyersburg	Dyer	310	27	35.0	− 4.7	60	26	2	18	35			2.88		7	15	0	13	n.	Miss M. A. Sinclair.
Jackson	Madison	450	17	38.6[b]	− 1.7	61[b]	8†	− 4[b]	13	41[b]	4.45		1.30	10.5	6	11	8	9	nw.	T. H. Hartmus.
Kenton	Obion		8	35.8		61	15†	− 1	18	33	6.21		3.70	6.5	10	13	1	14	n.	G. S. Martin.
Memphis	Shelby	469	39	39.3	− 4.0	65	15	9	18	39	4.37	+ 0.02	2.45	7.0	8	10	5	13	n.	U. S. Weather Bureau.
Milan	Gibson	440	27	32.6		62	14	− 1	13	37	3.70		1.73	7.0	9	16	1	11	n.	O. F. Cantwell.
Trenton	do	345	27	35.4	− 4.3	67	28	− 8	13	42	4.90	+ 0.32	3.55	8.5	6	14	3	11	sw.	Prof. F. L. Dennison.
Union City	Obion	360	12	35.4		61	15†	− 3	18	34	3.78		2.00	6.0	6	12	9	7	n.	J. B. Kinsey.

TABLE 1.—*Climatological data for February, 1910. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Arkansas.																				
Alicia	Lawrence	.....	6	37.4	.....	65	15	− 9	18	40	2.52	.....	1.52	9.0	7	14	7	7	n.	McCullough & Guelck.
Amity	Clark	250	18	41.6	+ 0.3	70	2	−11	18	45	4.48	+0.56	1.16	6.0	8	11	2	15	ne.	Prof. S. M. Samson.
Arkadelphia (near)	do	250	3	43.1	.....	67	15	0	18	37	4.05	.....	2.97	4.2	7	8	6	14	sw.	J. A. Ross.
Arkansas City	Desha	145	27	.....	.....	.....	.....	.....	.....	.....	5.22	+ 0.86	1.32	2.0	11	.....	.....	.....	.....	W. C. Blundell.
Batesville (2)	Independence	271	6	.....	.....	.....	.....	.....	.....	.....	3.46	.....	1.74	9.0	6	.....	.....	.....	.....	Miss Lelia I. Teter.
Bee Branch	Van Buren	.....	18	38.9	− 1.4	64	15	− 5	18	43	3.90	+ 0.69	2.70	8.0	6	12	6	10	.....	J. E. Scanlon.
Benton	Saline	283	3	41.2	.....	65	1†	0	18	37	4.64	.....	3.00	5.0	6	.....	.....	.....	w.	J. E. Evans.
Bentonville	Benton	1,303	5	32.8	− 5.7	64	15	−10	18	38	2.59	+ 0.07	1.29	10.9	7	14	2	12	s.	U. S. Weather Bureau.
Bergman	Boone	1,324	14	31.2	− 3.3	64	15	− 7	18	40	2.71	.....	1.10	9.5	6	14	6	8	nw.	John T. Maxey.
Black Rock	Lawrence	.....	6	.....	.....	.....	.....	.....	.....	.....	3.03	.....	1.75	7.0	6	.....	.....	.....	.....	S. J. Howe.
Brinkley	Monroe	226	24	37.9	− 3.9	67	5	2	18†	48	6.12	+ 2.41	4.81	6.0	6	14	2	12	.....	H. L. D. Whitson.
Calico Rock	Izard	361	6	.....	.....	.....	.....	.....	.....	.....	2.30	.....	1.40	9.0	4	.....	.....	.....	.....	W. H. Stoner.
Camden	Ouachita	158	25	45.0	− 0.7	70	15†	11	19	39	4.96	+ 0.91	2.66	3.9	9	10	17	1	ne.	R. H. Quarterman.
Centerpoint	Howard	.....	10	43.2	.....	70	15	0	18	39	3.82	.....	1.60	6.0	5	8	6	14	se.	J. M. Huddleston.
Clarendon	Monroe	171	6	.....	.....	.....	.....	.....	.....	.....	5.81	.....	3.00	8.0	10	.....	.....	.....	.....	Mrs. B. E. Bishop.
Conway	Faulkner	309	27	39.4	− 2.6	66	15	− 8	18	42	2.39	− 1.65	1.22	2.0	7	8	10	10	e.	G. H. Burr.
Corning	Clay	293	18	37.3	+ 2.3	64	15†	−12	18	41	3.12	− 0.72	1.20	11.0	7	9	9	10	s.	Jacob Brobst.
Dardanelle	Yell	330	24	37.8	.....	64	8	−10	18	44	1.76	− 1.48	0.91	3.0	4	12	1	15	.....	A. Bernard.
Dennard	Van Buren	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.09	.....	2.00	8.0	6	8	9	11	s.	Fred B. Brown.
Dodd City	Marion	1,175	29	35.8°	− 2.1	68°	14	− 6°	17	44°	2.29	− 0.99	1.10	11.0	5	.....	.....	.....	.....	Neal Dodd.
Dutton	Madison	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Edward Mize.
Earl	Crittenden	.....	4	38.9	.....	66	15	− 4	18	40	4.43	.....	3.13	5.0	6	18	5	5	.....	W. J. Moss.
Eldorado	Union	265	6	42.5	.....	71	15	8	18	45	4.86	.....	2.22	4.0	9	8	2	18	.....	Fred A. Babb.
England	Lonoke	.....	4	40.4°	.....	65°	5	4	18	39°	4.35	.....	2.55	5.0	6	5	11	12	n.	J. C. Chenault.
Eureka Springs	Carroll	.....	9	36.8	.....	69	15	− 8	18	45	3.12	.....	1.40	11.0	4	13	7	8	sw.	S. H. Britts.
Fayetteville	Washington	1,451	21	36.8	− 1.4	66	15	− 8	18	41	1.86	− 0.58	0.75	10.0	6	14	7	7	ne.	University of Arkansas.
Fort Smith	Sebastian	481	28	38.6	− 3.2	72	15	1	18	35	1.82	− 0.92	0.85	2.0	6	8	9	11	e.	U. S. Weather Bureau.
Fulton	Hempsted	264	6	.....	.....	.....	.....	.....	.....	.....	4.76	.....	1.80	6.0	7	.....	.....	.....	.....	B. C. Logan.
Hardy	Sharp	643	12	35.5	.....	66	15	− 4	18	45	3.66	+ 0.35	1.66	12.0	8	7	9	12	nw.	C. A. Caywood.
Helena (2)	Phillips	182	9	39.8	− 4.3	65	8†	8	18†	38	5.50	+ 0.63	2.00	3.5	10	14	0	14	.....	B. F. Modisett.
Hot Springs	Garland	600	4	39.2	.....	66	5	−11	18	47	3.70	.....	1.95	5.5	7	19	2	7	sw.	Hot Springs Water Co.
Huttig	Union	85	3	46.2°	.....	73°	16	10°	18	41°	4.41	.....	1.63	3.0	8	.....	.....	.....	.....	C. A. Berry.
Jonesboro	Craighead	345	15	37.2	− 1.5	65	8†	− 3	24	44	2.81	− 1.40	1.80	4.9	7	14	2	12	se.	Benedictine Sisters.
Junction	Union	.....	17	43.0	− 1.5	71	16	6	18	36	3.15	− 0.73	2.00	2.0	5	10	3	15	n.	J. A. Lowderback.
Lake Farm	Jefferson	195	3	39.0	.....	65	8†	2	19	36	4.44	.....	2.60	7.2	8	14	5	9	s.	R. H. Gillespie.
Lewisville	Lafayette	262	7	44.4	.....	71	15	2	18	38	4.66	.....	2.31	3.5	9	8	8	12	.....	F. W. Youmans.
Little Rock	Pulaski	357	31	40.4	− 3.7	68	5	9	18	45	4.59	+ 0.41	3.40	4.1	9	10	6	12	e.	U. S. Weather Bureau.
Lutherville	Johnson	775	13	36.5	− 3.1	69	15	− 5	18	45	2.40	.....	0.87	2.0	5	8	9	11	se.	Herman Hentschel.
McNeil	Columbia	321	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. A. Smith.
Malvern	Hot Spring	277	23	42.0	− 1.1	67	5	− 2	18	46	4.74	+ 1.47	3.22	4.0	8	.....	.....	.....	.....	Miss L. C. Smith.
Mammoth Spring	Fulton	.....	6	34.3°	.....	67°	15	− 2	18	40	3.17	.....	1.75	10.3	8	.....	.....	.....	.....	F. Wallick.
Marked Tree	Poinsett	.....	6	.....	.....	.....	.....	.....	.....	.....	3.31	.....	3.00	5.0	5	.....	.....	.....	.....	L. Smith.
Mena	Polk	1,100	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. H. Hopkins.
Mossville	Newton	.....	17	34.4	− 0.3	61	15	0	18	42	2.10	− 0.92	1.55	6.5	5	12	3	13	s.	Theo. Ober.
Mount Nebo	Yell	1,750	20	35.6	− 2.2	62	15	5	18	45	2.22	− 1.13	2.02	2.0	4	19	4	5	s.	T. G. Church.
Newport (1)	Jackson	231	26	35.8°	− 3.4	65°	15	− 1	18	37°	3.17	− 0.80	1.93	6.0	6	.....	.....	.....	.....	L. R. Cobb.
Ozark	Franklin	377	19	39.6	− 1.5	72	15	0	18	44	1.95	− 0.65	0.86	3.0	7	12	11	5	e.	R. M. Adams.
Pine Bluff	Jefferson	215	22	42.0	− 3.0	75	8	6	18	48	5.64	+ 1.50	3.35	5.5	8	.....	.....	.....	.....	J. M. Hudson.
Pocahontas	Randolph	.....	18	35.8°	+ 0.1	65°	15	−12°	18	50°	2.71	− 0.93	1.85	4.8	7	12	7	9	.....	Benedictine Sisters.
Pond	Benton	1,250	13	34.7	.....	65	1†	− 9	18	41	1.60	.....	1.15	10.2	5	7	10	11	sw.	A. F. Stevens.
Portland	Ashley	122	1	43.6	.....	74	15	13	18†	45	3.57	.....	1.05	4.8	9	.....	.....	.....	.....	T. A. Corson.
Prescott	Nevada	327	22	42.2	− 2.5	69	15	− 1	18	46	4.03	− 0.58	2.65	3.0	9	.....	.....	.....	.....	A. M. Ellsworth.
Rogers	Benton	1,385	19	36.0	− 0.1	65	1†	−13	18	44	1.60	− 0.27	0.65	10.5	6	12	3	13	n.	Carl A. Stark.
Spielerville	Logan	1,050	13	39.5°	− 0.3	72°	16	− 4°	18	53°	2.74	− 0.10	1.57	2.4	4	16	3	9	se.	New Subiaco Abbey.
Springbank	Miller	182	3	.....	.....	.....	.....	.....	.....	.....	4.54	.....	2.05	6.0	8	.....	.....	.....	.....	G. Field.
Stuttgart	Arkansas	495	23	39.2	− 3.7	64	5†	− 2	18	38	5.46	+ 1.62	2.63	4.0	10	8	9	11	n.	H. A. Buerkle.
Texarkana	Miller	332	26	41.9	− 5.7	69	15	7	18	43	3.89	+ 1.40	2.42	4.0	8	.....	.....	.....	.....	F. F. Quinn.
Warren	Bradley	304	15	40.4	− 3.0	70	15	3	18	47	6.57	+ 2.13	2.30	5.5	9	.....	.....	.....	.....	W. J. Savage.
Whitecliffs	Little River	306	6	.....	.....	.....	.....	.....	.....	.....	4.08	.....	2.10	.....	8	.....	.....	.....	.....	John E. Payton.
Wiggs	Garland	.....	17	40.0	− 2.0	68	5	−11	18	49	2.56	− 1.46	1.06	6.5	7	8	11	9	sw.	S. D. Jester.
Wynne	Cross	.....	2	35.6	.....	66	15	−11	18	48	5.72	.....	4.00	5.8	11	.....	.....	.....	.....	R. R. Poole.
Mississippi.																				
Anguilla	Sharkey	107	2	46.1	.....	74	16	16	18	50	5.80	.....	2.15	1.0	7	9	5	14	n.	E. W. Cook.
Austin	Tunica	200	14	40.6	− 2.4	65	8†	8	18	36	7.68	+ 3.36	2.30	6.0	8	11	6	11	nw.	H. J. Irvine.
Batesville	Panola	230	22	38.8	− 4.1	68	15	8	18	42	4.75	+ 0.63	1.55	5.0	8	15	2	11	w.	J. M. Cox.
Byhalia	Marshall	390	1	.....	.....	.....	.....	.....	.....	.....	4.63	.....	1.33	8.5	8	6	14	8	ne.	Tallahatchie Drng. Com.
Canton	Madison	228	20	47.1	− 1.2	71	15	19	18	39	4.80	− 0.47	1.74	0.8	9	7	12	9	ne.	Dr. G. W. Smith-Vaniz.
Clarksdale	Coahoma	177	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. F. Durham.
Coffeeville	Yalobusha	241	1	.....	.....	.....	.....	.....	.....	.....	4.98	.....	2.00	1.0	11	14	6	8	ne.	Tallahatchie Drng. Com.
Corinth	Alcorn	470	22	37.7	.....	64	16	7	13	47	3.73	− 0.77	1.54	4.2	9	12	1	15	n.	M. A. Candler.
Crenshaw	Panola	187	1	.....	.....	.....	.....	.....	.....	.....	4.88	.....	1.30	9.4	10	8	9	11	ne.	Tallahatchie Drng. Com.
Denmark	LaFayette	.....	1	.....	.....	.....	.....	.....	.....	.....	5.21	.....	2.50	4.0	8	.....	.....	.....	.....	Do.
Duck Hill	Montgomery	.....	11	45.0°	.....	71°	16	13°	18	48°	6.66	.....	3.10	T.	6	9°	3°	14°	s.	W. H. Eskridge.
Edwards	Hinds	222	23	47.9	− 2.5	75	16	17	18	42	5.30	+ 0.40	1.21	2.2	7	11	9	8	se.	C. R. Knox.
Enid	Tallahatchie	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Tallahatchie Drng. Com.
Fayette	Jefferson	270	9	48.6	− 0.7	76	16	20	18†	49	5.20	− 0.23	1.36	T.	7	9	8	11	ne.	T. L. Darden.
Greenville	Washington	126	23	43.2	− 3.7	72	16	13	18	42	4.48	+ 0.05	1.64	4.0	12	10	2	16	se.	F. L. Harbison.
Greenwood	Le Flore	140	10	42.4	.....	74	16	14	18†	44	6.39	+ 1.55	3.40	2.0	10	11	3	14	se.	J. H. Stephen.
Grenada	Grenada	194	1	.....	.....	.....	.....	.....	.....	.....	5.73	.....	3.07	0.2	6	15	8	5	ne.	Tallahatchie Drng. Com.
Hernando	De Soto	391	22	37.9	− 2.2	65	15	7	18	38	4.79	.....	1.55	11.5	11	16	1	11	n.	Mrs. Sarah B. Jones.
Hickory Flat	Benton	435	1	.....	.....	.....	.....	.....	.....	.....	4.20	.....	1.55	6.5	9	11	8	9	n.	Tallahatchie Drng. Com.
Holly Springs	Marshall	600	23	37.2	− 3.7	74	21	7	18	40	4.57	+ 0.38	1.55	8.0	10	10	5	13	ne.	L. B. Mosby.
Kosciusko	Attala	437	20	42.4	− 4.5	69	15†	17	18†	38	5.37	− 1.14	2.40	1.8	12	14	8	6	ne.	E. L. Lucas.
Lake Cormorant	De Soto	206	1	.....	.....	.....	.....	.....	.....	.....	5.88	.....	2.18	9.0	9	9	7	12	nw.	Tallahatchie Drng. Com.
Lula	Coahoma	182	1	.....	.....	.....	.....	.....	.....	.....	3.75	.....	1.50	3.7	8	10	6	12	.....	Do.
Malone	Marshall	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.
Marks	Quitman	163	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Do.
Natchez	Adams	206	22	48.0	− 3.5	77	21	20	18	46	4.80	− 0.64	1.80	0.0	7	3	6	19	n.	J. C. Werr, jr.
New Albany	Union	398	1	.....	.....	.....	.....	.....	.....	.....	4.68	.....	2.23	5.0	8	10	8	10	n.	Tallahatchie Drng. Com.
Pontotoc	Pontotoc	475	21	41.4	− 2.7	69	16	11	18	34	4.84	+ 0.37	2.00	4.0	6	9	13	6	se.	Dr. C. W. Bolton.
Port Gibson	Claiborne	116	22	45.6	− 3.6	73	15†	21	18†	46	6.03	+ 1.14	2.72	0.1	8	8	4	16	e.	H. H. Crisler.
Ripley	Tippah	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. W. Pegram.
Rosedale	Bolivar	143	2	.....	.....	.....	.....	9	18	.....	.....	.....	.....	.....	.....	11	4	13	nw.	W. A. Shelby.
Senatobia	Tate	284	1	.....	.....	.....	.....	.....	.....	.....	5.27	.....	1.49	7.5	10	16	0	12	n.	Tallahatchie Drng. Com
Shoccoe	Madison	.....	7	46.8°	.....	72°	16	17°	19	45°	4.02	.....	1.03	1.8	6	11°	6°	10°	ne.	J. C. Pitchford.
Suffolk	Franklin	.....	9	50.6	.....	75	21†	20	18	40	5.24	.....	1.64	T.	9	7	9	12	n.	Prof. Geo. H. Kent.
Swan Lake	Tallahatchie	148	9	.....	.....	.....	.....	.....	.....	.....	5.17	.....	2.15	8.0	8	.....	.....	.....	.....	B. F. Saunders.

TABLE 1.—*Climatological data for February, 1910. District No. 7*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Mississippi—Cont'd.																				
Tchula	Holmes	130	5	46.4	.....	75	16	12	18	50	7.70	.....	4.10	2.0	5	8	11	9	n.	Dr. M. P. Winkler.
University	LaFayette	502	17																	Prof. J. H. Dorroh.
Utica	Hinds	287	6	47.6	.....	78	26	20	18	43	5.29	.....	1.41	T.	9	6	12	10	n.	Dr. J. B. Dudley.
Vicksburg	Warren	247	39	46.4	− 4.5	72	16	19	18	35	5.40	+ 0.89	1.98	0.2	10	8	6	14	n.	U. S. Weather Bureau.
Water Valley	Yalobusha	300	21	42.9	− 1.9	68	15	10	18	35	3.47	− 1.46	1.60	7.5	6	11	12	5	s.	Miss Loula Erikson.
Woodville	Wilkinson	560	17	50.6	+ 0.5	76	22	20	18	40	3.57	− 2.03	1.68	0.0	6	15	9	4	n.	James E. Lee.
Yazoo City	Yazoo	116	16	44.0	− 1.6	75	16	18	18	43	5.84	+ 1.07	2.90	0.0	9	9	5	14	n.	H. S. Orr.
Louisiana.																				
Abbeville	Vermilion	18	22	52.8	− 2.2	79	21	24	18	36	3.13	− 1.46	1.16	0.0	8	9	7	12	se.	Hon. C. J. Edwards.
Alexandria	Rapides	77	19	48.0	− 2.3	78	21	19	18†	46	8.03	+ 2.29	4.20	T.	7	7	1	20	n.	Miss Nellie Graham.
Amite	Tangipahoa	130	22	52.0	− 0.6	76	20	22	17	46	4.10	− 2.47	1.00	T.	5	0	25	3	n.	Miss Lula M. Wentz.
Baton Rouge	E. Baton Rouge	33	22	50.4	− 2.8	74	22†	20	18	31	4.39	− 0.72	1.30	0.0	6	8	2	18	nw.	Elmo M. Bott.
Burnside§	Ascension	20	10																	C. S. McFarland.
Burrwood	Plaquemines	1	20	56.2	− 0.7	74	26	31	18	27	6.63	+ 2.57	2.12	0.0	11	8	3	17	nw.	Graham Myers.
Calhoun	Ouachita	180	17	46.6	− 0.9	73	15	14	18	40	6.45	+ 2.33	2.58	10.5	6	5	9	14	ne.	N. L. Exp. Station.
Cameron	Cameron	6	15	50.4	− 3.5	68	8	24	18	31						8	15	5	se.	State Biologic Station.
Cheneyville	Rapides	67	20	52.2	+ 0.4	80	1	22	18	41	4.38	− 1.41	1.60	0.0	5	12	9	7	n.	Walter I. Tanner.
Clinton	East Feliciana	113	20	51.0	− 2.2	77	21	22	18	38	2.47	− 3.06	1.27	0.0	6	3	7	18	n.	John A. White, Jr.
Collinston	Morehouse	65	8	46.3[b]	.....	74[b]	15	14[b]	18	40[d]	6.13	.....	2.25	4.3	7	13	7	8	.....	W. A. Page.
Covington	St. Tammany	39	17	51.1	+ 0.6	77	21†	25	18†	45	5.34	− 0.58	1.91	0.0	9	6	6	16	n.	C. Champagne.
Dodson	Winn		1	48.6	.....	71	15	16	18	40	9.34	.....	2.26	5.5	9	11	2	15	n.	J. P. Lucas.
Donaldsonville	Ascension	33	20	55.8	+ 1.0	82	2†	23	18	46	5.40	− 0.12	2.10	0.0	8	11	1	16	n.	John F. Park.
Farmerville	Union	177	20	41.2[b]	− 6.5	72[c]	14†	10[b]	17	52[c]	6.07	+ 1.89	1.25	T.	9	11	5	12	n.	W. P. Chandler.
Ferriday	Concordia		3	49.2[a]	.....	81[a]	22	19[a]	18	46[a]	4.66	.....	1.51	0.0	7	13	2	13	n.	R. Z. Sclater.
Franklin	St. Mary	10	18	52.8	−0.8	79	16†	25	18	47	4.28	− 0.84	1.40	0.0	11	8	4	16	ne.	Miss Josephine M. Bonney.
Grand Cane	De Soto	302	4	46.8	.....	72	15	14	18	48	4.53	.....	1.58	3.0	6	9	3	16	w.	J. J. Paxton.
Grand Coteau	St. Landry	93	23	53.2	− 1.4	80	21	22	18	37	3.12	− 1.83	1.65	0.0	5	10	11	7	ne.	St. Charles College.
Hammond	Tangipahoa	44	15	52.4	− 0.1	78	9	24	18	37	5.78	+ 0.38	1.65	0.0	8	11	6	11	se.	C. C. Carr.
Houma	Terrebonne		19																	J. M. Haggerty.
Jennings	Calcasieu	30	12	50.8	− 0.9	79	21	23	18†	45	2.90	− 1.75	0.98	0.0	8	7	12	9	n.	J. F. Buch.
Lafayette	Lafayette	36	21	51.6	− 2.2	87	22	23	18	37	2.59	− 2.07	1.00	0.0	8	8	4	16	n.	J. J. Davidson.
Lake Charles	Calcasieu	22	22	53.0	0.0	81	22	20	18	49	2.52	− 2.14	1.21	0.0	4	14	0	14	n.	A. O. Boudreaux.
Lakeside	Cameron		9	52.6		76	21†	26	18	31	2.54		0.73	0.0	5	13	1	14	e.	Miss L. T. Nunnemacher.
Lawrence	Plaquemines	6	18	53.4	− 1.1	80	21	27	18†	37	4.44	− 0.81	1.24	0.0	9	11	7	10	e.	H. C. Warmoth.
Liberty Hill	Bienville		23	48.2	− 1.8	74	15	13	18	41	6.15	+ 1.92	2.00	9.0	6	10	3	15	n.	Dr. E. A. Crawford.
Logansport	De Soto	192	6								6.20		3.10	1.7	8	9	1	18	s.	Mrs. Bettie M. Dennis.
Melville	St. Landry	45	21	49.8	− 3.1	78	26	21	18	49	2.26	− 3.21	1.12	0.0	5	10	4	14	n.	Chas. B. McNeill.
Minden	Webster	194	18	43.4	− 4.6	72	15†	8	18	47	5.14	+ 1.61	2.11	2.0	9	8	7	13	n.	Miss Ethel Fort.
Monroe	Ouachita	82	22	46.6	− 2.9	71	15	16	18	44	5.92	+ 1.71	1.70	0.4	8	12	4	12	nw.	Kenneth F. Stiles.
Morgan City	St. Mary	14	5								4.00		1.40	0.0	7	9	8	11	n.	Virgil E. Kinsey.
Newellton	Tensas		3	48.8	.....	72	15	19	18	36	7.05	.....	2.25	T.	7	10	12	6	n.	John D. Fultz.
New Iberia	Iberia	15	20	54.0	− 0.4	78	22	23	18	37	3.00	− 1.80	1.03	0.0	7	8	4	16	nw.	Mrs. Jno. A. Gebert.
New Orleans (1)	Orleans	51	40	53.6	− 2.7	79	21	26	18	39	4.75	+ 0.28	1.14	0.0	10	8	8	12	ne.	U. S. Weather Bureau.
New Orleans (2)	....do	18	21	54.3	− 0.4	79	21	27	18	45	3.90	− 1.46	0.95	0.0	9	4	8	16	n.	Sugar Exp. Station.
Opelousas	St. Landry	83	18	51.0	− 0.3	78	22	23	18†	43	2.12	− 3.29	0.92	0.0	6	3	11	14	n.	Andrew Moresi.
Plain Dealing	Bossier	268	18	45.5	− 1.3	73	15†	3	18	39	5.38	+ 2.06	2.03	6.5	11	9	6	13	se.	Leon Sanders.
Rayne	Acadia	44	18	51.9	− 0.1	77	21	24	18	37	3.05	− 1.68	1.30	0.0	8	8	1	19	n.	A. P. McNeil.
Reserve§	St. John Baptist		8																	Leon Godchaux Co., Ltd.
Robeline	Natchitoches	147	13	45.2	− 3.3	74	21	17	18	48	3.92	− 0.76	1.75	4.2	8	13	4	11	n.	Miss Ruby McCook.
Ruston	Lincoln	312	13	47.2[b]	− 1.3	72[b]	15	12[b]	18	39[b]	7.03	+ 2.07	3.85	0.8	4	7	9	12	n.	J. C. H. McKinney.
St. Francisville	West Feliciana	115	6	49.2	.....	78	21	25	19	38	2.68	.....	1.00	0.0	5	9	1	18	n.	L. P. Kilbourne.
Schriever	Terrebonne	17	17								3.42	− 1.77	2.00	0.0	5	15	3	10	e.	Chas. V. Moore.
Shreveport	Caddo	249	39	45.8	− 4.2	72	15	12	18	38	4.53	+ 0.92	1.68	2.7	10	8	5	15	se.	U. S. Weather Bureau.
Simmesport	Avoyelles		5								3.01	.....	0.96	0.0	9	4	6	18	ne.	C. T. Leigh.
Southern Univ. Farm	Jefferson		15								3.50	− 1.64	1.20	0.0	8	8	9	11	se.	F. L. St. Martin.
Sugartown	Calcasieu		17	50.9	0.0	75	21	20	18	35	4.94	− 0.90	2.18	0.0	5	6	14	8	.....	G. W. Richardson.
Tallulah	Madison	91	2	46.4[b]	.....	77[b]	16	18[b]	18	47[b]	7.09	.....	3.38	T.	7	7	12	9	.....	C. E. Speed.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2—*Daily precipitation for February, 1910. District No. 7, Lower Mississippi Valley.*

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Colorado.																																	
Blaine	Cimarron		.10						.12								.20									T.			T.				0.42
Buena Vista	Arkansas																.40						.05										0.45
Calhan	Big Sandy																																
Canon City	Arkansas								.05							.15	.58																0.78
Colorado Springs	Fountain								.02							.31	.16				.02		T.				.03						0.54
Cripple Creek	Oil Creek		.02													T.	.04									T.			T.				0.06
Cuchara Camps	Cucharas		.16	.03					.10							.26	.52							T.			.36						1.43
Eads	Big Sandy																																
Fairview	St. Charles																																
Florence	Arkansas		.09						.09							.67																	0.85
Garfield	Little Arkansas		.31						.02		T.	T.	.10			.20	.35		T.	.21	.25	.15		.28		.15	.09	T.	.22					2.33
Glen Eyrie	Fountain								.02							.27	.22				T.						.12						0.63
Hamps	Big Sandy		.03						.07			T.				*	.05										.03						0.18
Hermit Lake	Grape Creek	.24							.10							*	.68		*	.44	.12	.08	.13		.17								1.96
Hoehne (near)	Purgatoire																																
Holly	Arkansas		T.														T.				T.												T.
Lake Moraine	Fountain		.07						.05		.02					.45	.19				.02					.01							0.81
Lamar	Arkansas		.10						.40								.10				.10												0.70
Las Animas	...do		T.						.34							T.	.20			.33					.20								1.07
La Veta Pass	Cucharas		.41						.05								.85									.08							1.39
Leadville	Arkansas		T.	.06					T.		T.	.02	.02			.12	.10		.04	T.	.08	.09		.26		T.	.08	T.	.27				1.14
Limon (near)	Big Sandy		T.						T.			T.				T.	T.										T.						T.
Marshall Pass	Arkansas		T.	T.					.09	T.		.14	.33	.13	.06	.41	.08			.28	.38	T.	.26			.17		.24	.29				2.86
North Lake	Purgatoire		*	.16					.08							*	1.04					.05				.04	.25						1.62
Pueblo	Arkansas		T.	T.					.01							.22	.08	T.			T.	T.				T.	.21						0.52
Rockyford (near)	...do		T.						T.								.10									.17							0.27
Saint Elmo	Chalk Creek		.14						T.				T.			.03	.30		T.	.20	.15	.04	.30			.14	.06		.06				1.42
Salida	Arkansas																																
Santa Clara	Cucharas		.21	.03					.04							.02	.30				T.						.65						1.25
Sheridan Lake	Arkansas		T.				T.		T.								T.				T.												T.
Stonewall	Purgatoire		.05	T.					.04							T.	.44							T.		T.	.13						0.66
Trinidad	...do		.21	.09					T.	.06						*	.28				T.						.48						1.12
Victor	Oil Creek		.03						.04							.08	.10																0.25
Vilas	Cimarron		T.						T.								.10																0.10
Westcliffe	Grape Creek		.03						.03							.30																	0.36
Winfield	Clear Creek		.01						.02		T.	T.	T.		.01	.01	.02		T.	T.	T.	T.	T.	.09		.01	T.	T.	.12				0.29
Wortman	Arkansas						T.	.17	T.			T.	.20	.35	T.	T.		T.	.20	.30	T.	T.	.35	T.	.40	.25	.36	T.	.60				3.38
New Mexico.																																	
Abbott	Canadian															*	.18																0.18
Albert	...do															.36																	0.36
Arch (near)	Red																																0.00
Aurora	Canadian		T.	.08													.25			T.	.31	.38											1.02
Bell Ranch	...do																.14																0.14
Black Lake	...do			.04												*	.27				.26												0.57
Cabeza	...do															.10	.02																0.12
Campana	...do		T.													.18																	0.18
Chacon	...do		.20						T.								.32			*	.38	.45											1.35
Cimarron (near)	...do		T.														.20				T.					T.							0.20
Clayton	...do																																
Clovis	Red																																
Cuervo	Canadian																.02																0.02
Dawson	...do																.30																0.30
Dorsey (near)	...do																									T.							
Elizabethtown	...do		.14														.60			.42													1.16
Folsom	Cimarron		.10	.04					.02							*	.28										.09						0.53
Fort Union	Canadian		T.														.07			T.	T.	T.				T.							0.07
Hayden	...do																.16																0.16
Johnson's Park	...do															*	.05				T.					T.							0.05
Lake Alice	...do																																
Logan	...do																.18																0.18
Los Alamos	...do		*	.19													.14																0 13
Lykins (near)	Red																																
Maxwell (near)	Canadian															*	.17									T.							0.17
Melrose	Red		.03														T.									T.							0.03
Miami Ranch	Canadian															*	.18																0.18
Montoya	...do								T.																								T.
Nara Visa	...do		T.						T.								.20																0.20
Pasamonte	...do																.32																0.32
Raton	...do								T.								.20									T.							0.20
Rociada	...do		.52													*	.55																1.07
Roy	...do															*	.05																0.05
San Jon	...do		T.														.08									T.							0.08
Solano (1)	...do															*	.19																0.19
Springer	...do																.07																0.07
Taylor	...do															.27																	0.27
Trementina	...do		T.														.32																0.32
Tucumcari (1)	...do		T.														.04																0.04
Valley	Cimarron	.18							.09							*	.32																0.59
Vermejo Park	Canadian		T.						T.							*	.32									T.		T.					0.32
Wagon Mound (near)	...do		T.														.10									T.							0.10
Texas.																																	
Amarillo	Canadian		T.	T.													.17						T.			T.							0.17
Arthur City‖	Red		.60																.20	.60													1.40
Bonham	...do		.84														.12	.40					T.			.28							1.64
Canadian	Canadian																																
Channing‖	...do																T.	T.															T.
Childress	Red																.10						T.										0.10
Chillicothe	...do	.08															.02							.02									0.12
Clarendon	...do																T.																T.
Clarksville	...do								T.									.35				.40	.08					.72					1.55
Claude	...do																.10	T.															0.10
Dalhart‖	Canadian			T.													.03	T.															0.03
Denison‖	Red		.66														.01	.12	T.							T.	.04						0.83
Finley‖	...do			.35														.40			1.05						2.90						4.70
Henrietta‖	...do		.83														T.	.35															1.18
Hereford	...do																T.																T.
Lewis Ferry‖	...do		.20															.20	.10			.08		T.			.80						1.38
Memphis	...do																T.																T.
Miami	Canadian									T.	T.						.10																0.10
Mobeetie‖	Red																.10																0.10
Nazareth	...do																T.																T.
Ochiltree	Canadian																																
Pampa‖	...do																																0.00
Paris‖	Red	.65															.60	T.						T.			.50						1.75

TABLE 2.—*Daily precipitation for February, 1910. District No. 7*—Continued.

Stations	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Texas—Cont'd.																															
Plemons	Canadian		T.							T.							.02							.03							0.05
Quanah	Red																.01						.02								0.03
Ringo Crossing	do			.50													.50	.20	T.								.77				1.47
Romero	Canadian																														0.50
Sherman	Red																	.45				.16					.71				1.94
Sulphur Springs	do		.62																						T.						0.20
Texline	Canadian			T.													.20	T.													T.
Tulia	Red																T.					T.		T.							
Wichita Falls	do																														
Winfield	do	.50								T.	T.					.10	.16	.40			T.			.18			2.40					3.74
Kansas.																															
Anthony	Arkansas		.21						.02	.05			.02				.50					.15					.04					0.99
Ashland	Cimarron		.02						.02				.60				.02					.04		T.								0.60
Burlington	Neosho			.27													.04					.02					.30					0.63
Chanute	do		.25	.15					.50								.30					T.	T.				.43					1.63
Cimarron	Cimarron		T.										.30					T.														0.30
Coldwater	do		T.						T.				.15				.01					.07	T.									0.23
Columbus	Neosho																														
Coolidge	Arkansas																T.						T.	T.			.19					0.40
Cottonwood Falls	Neosho		.20	.01													T.				T.		T.				.20					0.90
Council Grove	do		.40	.30													T.					.20	.02				T.					0.22
Cunningham	Arkansas		T.						T.			T.					T.				.02	.04	T.	T.								0.31
Dodge City	do		.02										.18				.05															0.95
El Dorado	do		.50	T.						T.							.15					T.					.30					0.19
Ellinwood	do		.01														T.				T.	.10	T.				.08					0.42
Emporia	Neosho		.18					T.									T.				T.	T.					.24					0.68
Eureka	Verdigris		.33	.02					T.	T.							.05					.02	T.				.26					1.37
Fall River	do		.50	T.				T.		.05							.30				.15	.02					.35					0.10
Fargo	Cimarron																.10															1.37
Fredonia	Virdigris		.50	.03					T.	.34							.20	T.				T.	T.	T.			.30					0.25
Garden City	Arkansas		.15																		T.	.10	T.								
Great Bend	do									T.			.60				T.					.15	T.									0.75
Greensburg	do																.20					T.	T.	T.			.27					0.78
Grenola	Verdigris		.21					T.	.10	T.							.10					T.					.19					0.61
Howard	do		.32						T.	T.							.31				.02											0.59
Hugoton	Cimarron		.04						.22								T.					.05	T.				.02					0.19
Hutchinson	Arkansas		.12														.85					.10		.01			.29					1.92
Independence	Verdigris		.37	T.					.02	.28							.27				T.	T.	T.	T.		T.	.22					0.89
Iola	Neosho		.28	T.				T.	.12												T.	.02										0.17
Jetmore	Arkansas		T.										.15																			0.25
Kingman	do		T.						T.	.02							.02					.16	.05									0.26
La Crosse	do												.06								.04	.16	T.				T.					0.08
Lakin	do		.08						T.								T.				T.	T.	T.									0.15
Larned	do		.05										T.								T.	.10	T.									1.07
Lebo	Neosho		.60	.02				T.									.08				T.	T.	T.	T.			.37					0.61
Le Roy	do		.10	.23				T.									.06					.02					.20					0.30
Liberal	Cimarron		T.						.10								.20						T.									0.10
McPherson	do		.04																			.02					.04					0.06
Macksville	Arkansas		T.	T.									.03			T.					T.	.03	T.									
Madison	Verdigris																															0.97
Marion	Neosho		.72	.03				T.									T.				T.	T.	T.				22					0.28
Medicine Lodge	Arkansas		.05						.07				.05				.04					.07	T.	T.		T.						
Medora	do																							.04			.18					0.57
Mt. Hope	do		.30							.05																	.50					1.06
Neosho Rapids	Neosho		.40	.16													T.				T.											
Ness City	Arkansas																															0.74
Newton	do		.57	T.						.03							.10										.04					0.85
Norwich	do		.58	T.					T.	.04							.12	T.				.06	T.	T.			.05					1.78
Oswego	Neosho		.48						.45								.40					.05		.02			.38					0.40
Pratt	Arkansas		.20										.10				T.				.10											0.86
Rome	do		.50						.01								.20					T.		T.			.15					0.80
Sedan	Verdigris		.11	T.					T.	.16						.25					.05		.03			.20					0.95
Toronto	do			.40													.35										.20					0.30
Ulysses	Cimarron		.10						T.									.10			.10	T.										1.88
Walnut	Neosho		.23	T.					T.	.55							.50				.10	T.	T.				.50					0.63
Wichita	Arkansas		.39					T.	.04								.07				.06	T.	T.		T.		.07					0.98
Winfield	do		.70						.06								.12				T.	T.	T.		.10							1.01
Yates Center	Verdigris		.33	.05				T.	T.								.30	T.			.05	T.					.28					
Oklahoma.																																
Ada	Canadian								.05				.20				.20					.10		.05		T.	T.					0.60
Alva	Arkansas		T.														T.															0.82
Apache	Red		.82						T.								.10							.10								0.24
Arapaho	Washita		.04									T.						1.10							T.							1.63
Ardmore	Red		.53							.50							.40					.15		.05			.11					1.31
Bartlesville	Arkansas		.10														.30						.10									0.75
Beaver	Canadian		.05	T.					.30								.18					.13		.04	.40		.04					1.10
Blackburn	Arkansas	.13							.18								T.															0.20
Cache	Red	.20																.04														0.25
Calvin	Canadian		.21														T.	.40				.05		T.	.05		T.					0.50
Chandler	do		T.																													0.63
Chattanooga	Red		.60									.03					.12					T.	T.	T.								0.77
Chickasha	Washita		.65														T.							T.								T.
Cloud Chief	do								.10				.09				.25					.05		.10			T.					0.59
Dacoma	Cimarron		T.														T.	.19							T.			.11				0.65
Durant	Red		.35	T.													T.							T.								T.
Eldorado	do	T.											T.				T.				.75			T.								0.79
El Reno	Canadian		.04											.09				.30				.05			.05			T.				0.66
Enid	Cimarron		.07							.10							T.						T.	T.								T.
Erick	Red			T.						.16							.50	T.				.09		.10			.43					1.55
Fairland	Arkansas		.12	.15						.18							T.	1.30	T.						.10			.38				2.66
Fort Gibson	do		.10	.60	T.												T.							T.								0.16
Frederick	Red		.16														.10					.03										0.17
Gage	Canadian		T.						.02	.02																						
Goodwell	do																															0.70
Guthrie	Cimarron											.30										.40										
Guymon	Canadian																															1.00
Harrington	Red																.15	.15						T.			.65	.05				0.82
Hartshorne	Canadian										T.	T.					.30	.10						T.			T.					0.72
Healdton	Red	.42															.20					T.	T.				T.					0.80
Helena	Cimarron		.02						.10	.10			.30				*	.40				.10		.10			T.					‖0.05
Hennessey	do		T.						T.			.20					T.						.02									0.90
Hobart	Red	T.	.03															.40							T.			.04				0.25
Holdenville	Canadian		.46														.20															
Hooker	do		T.						.05																							

TABLE 2.—*Daily precipitation for February, 1910. District No. 7*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Oklahoma—Cont'd.																																	
Hurley	Canadian		T.						T.								.25																0.25
Idabel	Red			2.05											2.00			.35						.14			.07					4.59
Jefferson	Arkansas		.06						.06			.02						.04				.08		.10			T.					0.38
Kenton	Cimarron		T.						.10								.30																0.40
Kingfisher	...do		T.										.13				.11					.02		.10			T.					0.36
McAlester	Canadian																.66	.18						T.			.45					1.27
McComb	...do																.60																0.60
Mangum	Red		.13									T.						T.						.25								0.38
Marlow	Washita		.52														T.	.22							T.							0.74
Meeker	Canadian		.35										.03				.10							.10			.10					0.68
Muskogee	Arkansas																1.42										T.					1.42
Mutual	Canadian																																
Neola	Washita		.10														T.							.12								0.22
Newkirk	Arkansas		.10														.40					.10										0.60
Norman	Canadian	.86											T.				.39				T.			.02								1.27
Oakwood	...do	.10							T.				T.				.20					T.		T.			.01					0.31
Okeene	Cimarron		T.						.03	T.			.08				.10					.01		.01								0.23
Oklahoma	Canadian	.28	.14						T.				T.				.08					.01		.03	T.		.01					0.53
Okmulgee	...do																.45							T.			T.					0.45
Paula Valley	...do																																
Pawhuska	Arkansas		.13	.03						.34							.60						T.	T.			.12					1.22
Perry	...do		.19	.01						.02							.20	.10				.07		.09			.03					0.71
Ravia	Washita		.38														.02	.12														0.52
Sac & Fox Agency	Canadian		.27														.40							T.								0.67
Shawnee	...do		.58	.01														.87														1.46
Snyder	Red																																
Stillwater	Cimarron		.03	.02						.02							.02	.20				.02	.01	.02	.05			.05					0.44
Supply	Canadian		T.						.20				T.				.30							T.								0.50
Tulsa (1)	Arkansas			.09						.05							.11	.92				T.	.03									1.20
Vinita	...do		.10							.10							.60					.20		.20			.83	.05				2.08
Wagoner	...do		.05	T.					.04	T.							.60	.20						.05			.45					1.39
Waukomis	Cimarron												.05				.10					.05	T.	T.			T.					0.20
Waurika	Red		.21								.02	T.					.15	.07														0.45
Weatherford	Canadian		T.	.20						T.								T.						T.	T.							0.20
Webbers Falls	Arkansas			.34						.15							.15	.15						T.			1.05					1.84
Whiteagle	...do		.30							.10							.20					.10										0.70
Woodward	Canadian								.05								.15							.02								0.22
Missouri.																																	
Belle	Meramec		.25	.10				.10		.40							.80	.80				.05					.75					3.25
Birchtree	Black		.20	.15						.45	T.							1.05						.16			.75	.40				3.16
Cape Girardeau	Mississippi			.02						.10							T.	.84	.50				.10		.10		.24	.02				1.92
Caruthersville	...do		T.							.03		T.	T.			T.	T.	1.25			T.	.18		T.	.16		.32	2.68				4.62
Dean	Neosho		.11		.02					.34							.90							.15			.49	T.				2.01
Doniphan	Black		.18	.72						.22							.50	.90						.10			.65	1.08				4.35
Farmington	Mississippi		.18	.28						.32	.15						.47	1.20						.80			3.00					6.40
Gano	Meramec		.18	.46						.82			.03				1.16	.45				.04					.53	.12				3.79
Goodland	Black		.56							.60					.50		1.00	.20			1.05						1.03					4.94
Greenville	Mississippi		.20	.15						.35							T.	.90				T.	.25	.50	T.		.90	1.18				4.43
Hollister	White			.20					.30	.10						*	*	.80						.20			.40					2.00
Ironton	Mississippi			.51	T.					.45			T.				.25	1.50	.06				T.		.02			1.10				3.89
Jackson	...do	.26								.29			.02					.90				.07		.10			1.44	.06				3.14
Joplin	Neosho		.07					T.	T.	.20							.80	.10					.10				.40					1.67
Koshkonong	Black		.21	.12						.09							.51	.50					T.	.30			.81	.66				3.20
Lamar	Neosho		T.	.29						.70							T.	.46				T.					T.	.24				1.69
Marble Hill	Mississippi			.35					.60								*	.88					1.03	.10		.05	.65	1.10				4.76
Mountaingrove	White			.32						.27							1.67	.23						T.								2.49
Mount Vernon	Neosho		.10	.06						.30								*	1.10					.10			1.10					2.76
Neosho	...do		.10	.05					1.17								1.20	.20						.30			.74	.05				3.81
New Madrid	Mississippi			.20						.15			.05				.04	.85	.06									2.00	.06				3.41
Oakfield	Meramec		.13	.19					.02	.51			T.			T.	.79	.46			T.	T.	.03				1.01	.04				3.18
Olden	White			.20						.50								1.40						.69			1.23					4.02
Perryville	Mississippi		.15	.25						.20							1.40	.20									.25					2.45
Rolla	Meramec		.21	.42					T.	.63			T.				.95	.16				*	.06	T.			.74	.11				3.28
Sikeston	Mississippi		.14	.26						.35			.05				T.	.80									.50	1.45				3.55
Springfield	White		.10	.03					.18	.14			T.				1.22	.08				.01	T.	.11			.37					2.24
Steelville	Meramec		.10							.25							.42		.22				.05	T.			.25					1.29
Willow Springs	White																																
Kentucky.																																	
Blandville	Mississippi		.13	.20						.30		.09	.03				.37	.97			.02	T.		T.			.26	1.79				4.16
Lynnville	...do		.12	.05						.18		.50	T.			T.	.34	1.11				.20			T.			2.89	.15			5.54
Tennessee.																																	
Arlington	Mississippi																																
Bolivar	...do			T.								1.60					T.	1.68	.24			1.00	.05				.68	.17				5.42
Brownsville	...do			.25									.48				T.	1.50				.57	T.		T.		1.70	.25				4.75
Covington	...do											.20	.35				.06	.30							T.		2.27	.13				3.31
Dyersburg	...do									.24		T.					.40		.50			.22		T.	.10		2.88	.21				4.55
Jackson	...do		T.	T.						T.		.75					1.51	1.30				.85					1.30	.10				4.45
Kenton	...do		.09	.03						.05		.35	T.				.55	1.00				.31	T.		.08		3.70	.05				6.21
Memphis	...do		T.	T.								.28					.40	.46			.45	.03		.29			.79	1.67				4.37
Milan	...do			.05	T.			.02				.15	.50	T.				.10	.30			.50			T.		1.73	.35				3.70
Trenton	...do		.02	T.						T.		.45	T.	.20				.40				.28			T.		3.55					4.90
Union City	...do		.08							.02		.03						1.40				.25					2.00					3.78
Arkansas.																																	
Alicia	White		.10														*	.70						*	.20		*	1.52				2.52
Amity	Ouachita		.14	T.								T.				T.	.53	1.11			.05	.06		.33			1.10	1.16				4.48
Arkadelphia (near)	...do		.18									T.					.12	.38			.06	.10		.24			2.97					4.05
Arkansas City	Mississippi		.18	.78								.10					.06	1.00	.10			1.30	.02					1.00	.28				5.22
Batesville (2)	White			.02														.80	.30						.50			1.74	.04				3.46
Bee Branch	Arkansas																.30	.60						.10	.20		2.00	.70				3.90
Benton	Ouachita	.09										T.					*	.50			.70			.35			3.00					4.64
Bentonville	Arkansas		.25						.42							.05	1.25	.17			T.			.17			.28					2.59
Bergman	White			T.						.36							1.10	0.16						.41			.38	.30				2.71
Black Rock	...do			.20						.05							.06	.73							.24			1.75				3.03
Brinkley	...do			T.								T.					.30	.21	.20			.42			.18			4.81				6.12
Calico Rock	...do		T.	T.						T.							T.	.50	.20						.20			1.40				2.30
Camden	Ouachita		.30	.16								.08	T.					.20	.22			1.00	.08		.20			2.66				4.96
Centerpoint	Red	.32										T.	T.				1.00	.50				T.		.40			1.60		T.			3.82
Clarendon	White			T.						T.		.13	.07				.34	.66	.70			.44	.01		.46			2.92	.08				5.81
Conway	Arkansas		.08							.02							.40	.48			T.	T.		.19			.54	.68				2.39
Corning	White		.18							.04							1.01	1.20						T.	.30	T.	.25	1.05				3.12
Dardanelle	Arkansas		T.															*	.80						.05			.91				1.76
Dennard	White																.29	.49						.11	.20		1.21	.79				3.09
Dodd City	...do			T.						.20							*	1.10						.31				.68				2.29
Dutton	...do																																

TABLE 2.—*Daily precipitation for February, 1910. District No. 7*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Arkansas—Cont'd.																																	
Earl	St. Francis											.25						.50				.35			.20		.30	2.83					4.43
Eldorado	Ouachita		.30	.35								.32	T.	T.				.49	.30			.77	T.		.11			2.20	.02				4.86
England	Arkansas		T.	T.						T.		.12					T.	.50	.48			.38	T.		.32			2.55					4.35
Eureka Springs	White	T.	T.							.52								1.40						.65			.55						3.12
Fayetteville	do	.05		.06													.75	.15						.30			.55						1.86
Fort Smith	Arkansas		.08						.08							T.	.66	.14				T.		.04			.82						1.82
Fulton	Red		.52															.62	.60			.72	.30		.20			1.80					4.76
Hardy	White		.14	.07						.09							.65	.60				T.		.45		.78	.88						3.66
Helena (2)	Mississippi		T.	.04					T.			.12	.18				T.	1.52	.12			1.02	.10		.22			2.00	.18				5.50
Hot Springs	Ouachita		.12							.03		T.					.15	1.15						T.	.30		.74	1.21					3.70
Huttig	do		.58	.31								.26					.15	1.06				.25			.17			1.63					4.41
Jonesboro	White		.14									.01						.54			.09			.23			.50	1.30					2.81
Junction	Ouachita		T.								.05		T.				.15	.70			T.			.25				2.00					3.15
Lake Farm	Arkansas		.11	.20								.02						.70				.40		.20			2.40	.41					4.44
Lewisville	Red		.49								.25						.19	.66			.10	.47		.19			.81	1.50					4.66
Little Rock	Arkansas		.03							T.		.04					.51	.25			.11	.03		.22			3.07	.33					4.59
Lutherville	do		T.														.60	.40				T.		.05		.87	.48						2.40
McNeil	Ouachita																																
Malvern	do		.15	T.									T.				.10	.15	.50			.17	.10	.35				3.22	T.				4.74
Mammoth Spring	White		.28	.62						.09							.35	.35						.33			1.16	.59					3.17
Marked Tree	St. Francis		T.									.19					.07	.05										2.20	.80				3.31
Mena	Ouachita																																
Mossville	White		T.													T.	.46	.11						.04			.71	.84					2.10
Mount Nebo	Arkansas																*	.20									*	2.02					2.22
Newport (1)	White			.02													.02	.52	.15						.53			1.93					3.17
Ozark	Arkansas		.06							.17							.40	.30				.05		.11			.86						1.95
Pine Bluff	do		.08									.05	T.				.26	.10	.40			1.20			.20			3.35					5.64
Pocahontas	White		.20	.12						.06								.40						.08			.70	1.15					2.71
Pond	Arkansas		T.	T.						.05							*	1.15						.05			.35						1.60
Portland	Ouachita		.21	.20								.35	T.				T.	.40	.30			1.05			.29			.61	.16				3.57
Prescott	do		.27	.02								T.					.22	.40	.05			.15	.05		.22			2.65					4.03
Rogers	Arkansas		.02	T.						.05							.65	.25						.28			.35						1.60
Spielerville	do		T.							T.							1.57	.44						T.			.65	.08					2.74
Springbank	Red		.55	T.								.41	T.				.08	.93	.20			.12	T.		.20			2.05	T.				4.54
Stuttgart	Arkansas		.10									.15					.45	.30	.50		.08	.38			.32		.55	2.63					5.46
Texarkana	Red		.38									.03		T.			T.	.15	.53			.18	.04		.15			2.43					3.89
Warren	Ouachita		.27	.97								.20						.05	.30			2.20	.11		.17			2.30					6.57
Whitecliffe	Red			.10	.05							T.		.01			.05	1.50	.05		T.	T.				.22	T.	2.10	T.				4.08
Wiggs	Ouachita		.12									T.				T.	.09	.93			.11	T.		.25			.85	.21					2.56
Wynne	St. Francis			.03						T.		.08	.15				.15	.10	.72			.21			.15		.58	3.42	.13				5.72
Mississippi																																	
Anguilla	Yazoo		.11	.38								.21						2.15				1.95			.30			.70					5.80
Austin	do		T.	T.								.30			.83			.30				2.17			.75		.73	2.30	.30				7.68
Batesville	do			.90								.20						1.40	.15			1.00	.25					.75	.10				4.75
Byhalia	do			.10								.66					.40	1.33				.92			.17		.05	1.00	T.				4.63
Canton	Big Black		.01	.85					.14			.40					.26	1.48				.52			.16			.98					4.80
Clarksdale	Yazoo																																
Coffeeville	do		.10	.25					.08			.10					.05	2.00	.22			1.41			.27			.43	.07				4.98
Corinth	Mississippi			.20									.32				.06	1.54	.11			.96	.14		T.			.04	.36				3.73
Crenshaw	Yazoo		.02	.18								.52					.20	1.30			T.	1.00			.24		.11	1.30	.01				4.88
Denmark	do			.69								.40					.10	2.50				.69	.33					.45	.05				5.21
Duck Hill	do		T.	T.					T.			.70					T.	3.10				1.33		.22	.55			.76					6.66
Edwards	Big Black		.60	.89					T.			.45						1.21	T.			.65			.30			1.21					5.30
Enid	Yazoo																																
Fayette	Mississippi		.94	.86							.55							.71				.70		.08				1.36					5.20
Greenville	Yazoo		.08	.20					.01			.48	.07				.01	.95	.14			1.64	T.		.20			.52	.18				4.48
Greenwood	do			.20								.08	.23					3.40	.20			1.08	.02		.64			.39	.15				6.39
Grenada	do	T.			T.		T.				T.	.40						3.07				.95		.25	.39	T.		.67					5.73
Hernando	do			.12								.12	.15		1.00	.25	.90	T.				.20	.07		.13			1.55	.30				4.79
Hickory Flat	do			.34								.63					.09	1.55				.82	.16		.12			.43	.06				4.20
Holly Springs	do			.20								.42	.35				.07		1.55			1.00	.10		.14			.62	.12				4.57
Kosciusko	Big Black		.01	.38	.04				.15	.03		.75	T.					2.20	.20			.64			.30			.39	.28				5.37
Lake Coromrant	Yazoo			.03								.70					.31	1.12			.06	.61			.64		.23	2.18					5.88
Lula	do		.16									.37					.04	1.10			.05	.06			.31		.16	1.50					3.75
Malone	do																																
Marks	do																																
Natches	Mississippi			1.80	T.				T.			.51						.75	.05			.39	T.		T.			1.10	.20				4.80
New Albany	Yazoo		T.	.40								.42					.11	2.23				.77	.10		.12			.53					4.68
Pontotoc	do			T.					T.			.40						.64	2.00			.91		.40		T.		.49					4.84
Port Gibson	Mississippi			2.72	T.				T.			.39	T.					.75	.05			.75			.14			.85	.38				6.03
Ripley	Yazoo																																
Rosedale	do																																
Senatobia	do		.02	.16								.91					.16	1.49				.98	T.		.28		.10	1.16	.01				5.27
Shoccoe	Big Black	T.	.73						T.			.56					T.	1.03	.12		.60			T.			.98						4.02
Suffolk	Mississippi		1.13	.17				T.	.09		.50	.21					.18	.80				.52		T.			1.64						5.24
Swan Lake	Yazoo		T.								.20	.30						2.15	.30			1.02			.30			.68	.22				5.17
Tchula	do		T.	T.								.95						4.10				1.65		T.	.30			.70					7.70
University	do																																
Utica	Mississippi		1.41	.75							.08	.50					.17	.60				.43			.14			1.20					5.29
Vicksburg	do		1.63	.28				.01			.03	.27					.02	1.06	T.			.17		.20				.83					5.40
Water Valley	Yazoo		T.	.32						T.		.55					1.60	.20				.35			T.			.45					3.47
Woodville	Mississippi		.18	.29							T.	.73					T.	.51				.18					T.	1.68					3.57
Yazoo City	Yazoo		T.	.60						T.		.40	.16					2.90	T.			.66	.04		.36			.40	.32				5.84
Louisiana.																																	
Abbeville	Coast			.47				.03			1.16						.10	.17				.13	.07					1.00					3.13
Alexandria	Red			2.00								.63						4.10	.10						.15			.80	.25				8.03
Amite	Coast		T.	1.00								1.00			T.	T.	.80		T.				T.				.45		.85				4.10
Baton Rouge	do		.07	1.26								1.05						.65	.06										1.30				4.39
Burnside	do																																
Burrwood	do							T.	.42	.15	.10	2.12						.45			.16	.45	.35	1.30				.98	.15				6.63
Calhoun	Ouachita		.85	.55						T.		.84						.15				2.58						1.48					6.45
Cameron	Coast																																
Cheneyville	Red			1.60								.33						1.25			.10							1.10					4.38
Clinton	Coast		T.	.19	.01				T.			.75						.10	.15			T.			T.			T.	1.27				2.47
Collinston	Ouachita			1.12								.35						1.08			*	2.25		.25				1.08					6.13
Covington	Coast			.39	T.				.08	1.02	T.							1.60	.31		.02	1.00	T.	.02					.90				5.34
Dodson	Red		2.05	2.26								.53	.89					.03	.87			1.05		.11				1.56					9.34
Donaldsonville	Coast		T.	.15	.20				T.		T.	1.75						.65	.10			.35		.10					2.10				5.40
Farmerville	Ouachita		.80	.48								.33				.15		.70			1.05			.07	1.25			1.24					6.07
Ferriday	do		1.51									.40					.21	1.12				.42		.15				.85					4.67
Franklin	Coast			.21	.20			.06	.20	.63		.74						.47	.06			.24		.07	T.				1.40				4.28
Grand Cane	Red		1.01	1.14								.26					.24	.30					1.58										4.53
Grand Coteau	Coast		T.	.75				T.			.55	T.					T.	.15				T.		T.			.02	1.65					3.12
Hammond	do		T.	.61				T.		T.		1.65					.80	1.50				.35					.30	.70	.17				5.78

TABLE 2.—*Daily precipitation for February, 1910. District No. 7*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Louisiana—Cont'd.																																	
Houma	Coast																																
Jennings	do			.36					.08			.31						.93	.05					.09				.88	.20				2.90
Lafayette	do			.16	T.				.04			.73						.17	.18					.05				1.00	.26				2.59
Lake Charles	do			.29								.21						.81										1.21					2.52
Lakeside	do		.38					.07				.68						.68										.73	T.				2.54
Lawrence	do				.30					.16	.57	1.24							.39			.25			.37			.92	.24				4.44
Liberty Hill	Red		1.75								.51							.65				2.00		.10				1.14					6.15
Logansport	Sabine		1.00	2.10				T.	T.		.02	.12						.45	T.			.96			.05			1.50					6.20
Melville	Red			T.	.12							.76						.26	T.				T.		T.			.68	.44				2.26
Minden	do		.87	.60								.10						.26	.36			.66			.13			2.11	.05				5.14
Monroe	Ouachita		.04	1.70	T.					.02		.08						1.60	T.			1.50			.08			.90					5.92
Morgan City	Coast								.02	.23	.79	.83						.57	.16										1.40				4.00
Newellton	Mississippi			2.00	.75							.30					.25	2.25				.30						1.20					7.05
New Iberia	Coast			.20				T.	.10		.10	1.03					T.	.40					T.				T.	.97	.20				3.00
New Orleans (1)	do		T.	.67				T.	.13	.70	.56	.10					T.	1.06			T.	.28	.07	.04			T.	1.14	T.				4.75
New Orleans (2)	do			.78					.04	.69		.60						.95				.22	.13	.05				.44					3.90
New Orleans (3)	do			.70						.55	.48	.08						.65				.15	.40					.35					3.36
New Orleans (4)	do			.75					.03	.67	.46	.11					.01	.90				.20	.12	.03				.39	.01				3.68
New Orleans (5)	do			1.03					.10	.51	.50	.09						1.10				.32	.05	.01				.64					4.35
New Orleans (6)	do			.71					.11	.80	.54	.10						1.19				.27	.06	.03				.89					4.70
New Orleans (7)	do			.70					.02	.63	.48	.06						.88				.20	.35					.74					4.06
New Orleans (8)	do			.70					.52	.50	.45	.09						1.04				.54	.06					.78					4.68
Opelousas	do			.42					T.	T.		.50						.23	.05			T.		T.				.77	.15				2.12
Plain Dealing	Red		.58	.01							.30	.22					.18	.62			.15	.55		.17			.57	2.03					5.38
Rayne	Coast			.25			T.		.10			.55						.44				.15		.26				.55	.75				3.05
Reserve	do																																
Robeline	Red		.15	.22								.05					.25	.15	.60			.75						1.75					3.92
Ruston	Ouachita		1.60	T.														.08			3.85							1.50					7.03
St. Francisville	Mississippi	.14								.70							.51											.33	1.00				2.68
Schriever	Coast				T.			.47										2.00	T.	.04				.03	T.				.88				3.42
Shreveport	Red	T.	1.37					T.			.01	.01					.11	.45			.82	T.	.01	.07			1.62	.06					4.53
Simmesport	do			.34	.01				.02			.36						.46	.39			.10						.96	.37				3.01
Southern Univ. Farm.	Coast			.20				T.		1.20	.20	.40					T.	.50					.40	.10				.50					3.50
Sugartown	Red		.62								T.	.65					1.21					.28						2.18					4.94
Tallulah	Mississippi		.94	1.04								.31						3.38				.41			.20			.81					7.09

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 7, Lower Mississippi Valley.*

Date.	Colorado.						New Mexico.				Texas.				Kansas.										Oklahoma			
	Lamar.		Leadville.		Pueblo.		Albert.		Cimarron.		Amarillo.		Paris.‡‡		Dodge City.		Ellinwood.		Iola.		Liberal.		Wichita.		Ardmore.‡‡		Bartlesville.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Mid.	Max.	Min.	Max.	Min.	Max.	Min.	Min.
1...	68	22	41	11	62	30	68	27	58	15	67	32	71	32	68	33	60	36	65	32	71	25	64	38	70	42	64	35
2...	52	23	22	6	35	19	54	25	44	20	43	22	66	40	41	22	51	28	54	28	42	26	55	26	66	48	48	34
3...	35	12	26	− 4	31	15	42	14	32	5	33	16	38	35	33	13	34	17	34	22	33	14	32	18	39	28	37	25
4...	55	11	38	− 6	54	16	55	19	48	13	54	15	50	31	51	15	50	20	46	19	43	14	48	23	48	22	55	20
5...	51	15	35	2	46	21	55	20	50	14	57	24	67	24	49	20	46	28	48	23	53	13	46	29	64	25	55	23
6...	50	14	32	2	43	19	50	24	47	16	45	21	54	24	40	19	41	23	40	21	45	18	43	23	54	30	55	26
7...	55	5	37	5	59	14	59	22	57	11	58	37	54	38	52	25	48	26	43	28	56	24	50	29	55	35	52	31
8...	31	20	23	6	37	18	45	25	45	18	39	17	68	34	32	19	41	24	45	29	41	22	40	29	65	35	52	30
9...	30	− 1	25	− 3	39	13	44	15	45	2	46	15	52	32	44	12	45	16	42	20	44	6	40	18	47	27	42	18
10...	45	3	21	− 5	43	13	46	22	44	18	44	23	43	31	46	26	47	22	45	18	42	20	46	27	43	30	48	23
11...	49	20	18	− 2	39	21	48	19	45	14	47	20	55	30	39	25	40	27	40	20	42	22	38	23	54	28	50	22
12...	44	19	22	8	43	16	50	17	50	17	46	17	39	27	28	18	34	13	29	10	45	19	30	14	40	25	33	16
13...	58	16	38	15	62	17	75	34	59	19	65	23	56	20	58	15	51	20	46	19	65	22	49	20	55	19	52	23
14...	73	29	37	21	70	28	61	36	64	19	76	35	69	21	72	32	73	33	64	36	77	29	68	37	73	35	70	37
15...	60	30	13	0	55	12	38	6	54	29	56	21	75	45	52	11	60	25	56	15	66	23	56	14	78	54	61	42
16...	30	5	11	−11	12	−12	28	− 8	29	− 2	21	− 1	31	29	11	4	25	5	15	8	28	3	14	6	22	22	42	12
17...	28	− 4	5	−23	20	−17	45	5	12	−18	24	− 4	28	11	21	1	28	3	20	6	23	−10	24	5	24	10	24	9
18...	46	4	15	−10	36	3	53	18	38	−13	50	9	34	0	38	10	40	13	26	6	39	3	33	13	35	4	29	− 2
19...	48	12	27	2	44	4	46	27	47	17	64	24	48	4	45	13	42	15	38	10	52	10	40	16	53	22	39	14
20...	44	16	21	0	30	15	56	19	41	27	40	27	69	19	40	15	39	15	48	20	50	18	43	17	62	40	55	32
21...	50	17	22	5	46	15	62	28	44	20	63	19	56	32	31	12	22	9	24	14	41	16	29	11	48	28	35	23
22...	42	8	35	10	44	14	51	12	57	26	56	12	60	30	22	4	21	8	28	8	34	14	26	7	68	27	32	25
23...	44	6	40	13	45	9	60	25	59	28	37	11	39	32	22	1	20	0	12	4	31	3	14	2	28	26	25	10
24...	60	17	41	20	54	26	69	38	60	24	60	19	46	19	48	9	41	10	35	8	51	11	38	13	43	12	35	12
25...	74	33	38	22	61	30	64	31	59	28	63	29	53	20	56	26	49	25	42	21	63	27	43	24	52	25	45	26
26...	57	35	26	6	42	27	58	40	47	26	56	31	58	28	48	25	49	33	44	30	52	23	43	30	65	40	50	45
27...	55	26	31	5	53	24	59	26	55	15	57	25	63	39	52	23	48	23	46	21	56	28	49	23	60	30	50	26
28...	66	23	28	8	60	35	66	23	59	18	70	27	62	35	57	27	60	30	58	27	67	25	62	30	65	33	58	28
29...																												
30...																												
31...																												
Mns	50.0	15.6	27.4	3.7	45.2	15.9	53.8	21.8	48.2	14.9	51.3	19.9	53.7	27.2	42.7	17.0	43.0	19.3	40.5	18.6	48.3	16.7	41.5	20.2	52.7	28.6	46.2	23.8

Date.	Oklahoma.														Missouri.								Lynnville, Ky.		Jackson, Tenn.	
	Enid.‡‡		McAlister.		Mangum.‡‡		Muskogee.		Oklahoma.		Westherford.‡‡		Woodward.		Carutherville.		Ironton.‡‡		Lamar.‡‡		Olden.		Springfield.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	65	30	70	41	72	23	68	36	69	43	73	24	67	31	56	23	54	19	68	20	56	21	60	32	50	23	.....	20
2...	53	29	68	48	43	34	62	38	52	31	51	30	62	30	53	35	48	40	48	35	52	31	49	30	51	36	.....	34
3...	37	23	48	30	41	23	39	29	36	24	40	21	37	21	51	34	35	31	33	26	48	20	30	23	46	34	.....	35
4...	57	17	49	24	53	15	54	23	51	20	59	15	57	13	53	22	48	19	47	20	47	17	42	21	46	23	51	26
5...	57	18	70	28	63	14	58	24	56	31	65	34	57	22	60	20	55	21	51	21	55	22	48	27	50	25	56	23
6...	45	24	61	27	54	19	55	25	48	23	47	22	42	19	43	26	36	20	51	22	48	20	42	21	43	22	54	28
7...	59	29	56	39	56	19	50	35	54	38	51	34	56	24	48	23	43	15	46	21	39	18	38	25	45	21	52	23
8...	45	30	64	37	53	30	64	35	59	31	41	31	47	21	57	34	60	30	54	28	58	31	56	28	58	33	61	39
9...	45	18	61	29	44	18	57	25	43	20	51	19	45	8	47	32	34	25	35	13	53	26	28	20	49	31	59	34
10...	53	18	48	25	47	18	49	24	47	30	50	29	50	26	47	17	45	1	46	13	47	26	39	18	41	19	44	18
11...	45	25	55	26	53	22	54	26	50	26	57	27	44	22	36	29	43	25	46	17	45	25	41	21	38	29	43	29
12...	35	23	51	21	54	19	45	19	26	20	32	23	38	21	33	22	36	14	28	13	42	13	23	10	29	17	31	12
13...	40	12	54	18	58	20	53	17	52	19	53	24	59	18	46	13	44	18	45	12	45	10	42	16	36	6	37	− 4
14...	79	27	69	40	74	16	67	36	71	42	75	45	80	42	64	27	61	25	63	22	60	30	39	34	50	21	56	21
15...	58	40	74	55	61	39	72	50	61	28	63	43	68	35	62	27	65	44	61	43	62	35	62	25	59	44	61	46
16...	13	13	55	16	16	16	50	15	28	10	19	12	35	8	59	22	20	19	15	13	54	31	25	7	59	28	60	33
17...	25	8	25	10	29	6	18	− 1	22	8	29	7	24	− 3	28	13	18	9	20	5	.....	4	13	3	29	13	.....	.....
18...	39	9	35	2	46	6	28	− 9	31	8	41	6	42	11	31	− 4	27	−24	31	− 5	.....	− 4	24	− 5	24	− 5	26	5
19...	51	10	47	24	53	9	40	17	46	21	55	21	55	16	40	4	42	9	41	0	.....	4	35	13	40	0	41	8
20...	36	20	60	39	47	18	53	36	51	28	54	40	48	25	52	20	43	25	50	10	.....	22	46	25	50	23	53	23
21...	28	19	47	29	47	18	36	28	33	22	44	21	41	18	42	35	35	27	26	20	.....	27	27	20	47	35	53	38
22...	29	18	62	26	53	18	44	26	37	24	21	21	33	17	51	26	41	19	29	14	.....	18	29	18	48	28	54	31
23...	17	9	36	12	28	10	30	16	24	7	21	9	23	6	39	18	10	3	16	6	.....	7	19	4	45	19	54	28
24...	39	8	37	12	42	16	37	14	35	10	37	9	43	9	34	10	31	3	37	7	36	0	31	4	37	15	40	22
25...	48	15	50	24	50	24	48	25	48	25	53	13	52	24	54	17	46	5	45	20	41	12	39	21	50	20	56	23
26...	52	28	52	46	59	26	51	43	52	30	56	32	51	36	62	36	46	7	47	27	44	35	43	32	58	42	61	46
27...	66	24	57	30	56	20	51	29	55	25	60	20	53	19	51	37	38	31	40	24	44	30	34	25	57	37	60	41
28...	69	30	60	33	86	31	59	33	66	36	70	21	70	28	48	33	50	17	60	25	47	23	51	26	46	33	52	36
29...																												
30...																												
31...																												
Mns	45.8	20.5	54.3	28.2	51.6	19.5	49.7	25.5	46.5	24.3	48.9	23.3	49.2	20.2	48.1	23.2	41.2	17.0	42.0	17.5	48.7*	19.8	38.4	19.4	45.8	24.0	50.6*	26.6*

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 7*—Continued.

Date.	Tennessee.						Arkansas.								Mississippi.					
	Memphis.		Union City.		Bentonville.		Corning.		Dardanelle. ‖		Eldorado. ‖		Fort Smith.		Little Rock.		Pine Bluff. ‖		Texarkana. ‖		Wynne. ‖		Clarksdale. ‖		Corinth. ‖		Greenville. ‖	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	56	33	51	31	53	34	57	35	59	33	67	36	61	34	63	36	61	34	63	36	63	36			56	34	58	36
2	57	36	51	32	54	34	57	35	59	33	67	36	61	34	63	36	61	34	63	36	63	36			56	34	58	36
3	47	26	47	26	47	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
4	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
5	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
6	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
7	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
8	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
9	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
10	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
11	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
12	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
13	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
14	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
15	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
16	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
17	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
18	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
19	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
20	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
21	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
22	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
23	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
24	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
25	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
26	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
27	47	28	46	28	46	24	49	25	49	24	56	26	51	24	56	26	54	24	56	26	56	26			51	24	53	26
28	44	27	44	27	44	24	46	25	46	24	54	26	49	24	54	26	51	24	54	26	54	26			49	24	51	26
Mns	46.2	30.4	46.4	24.5	44.2	21.5	49.3	25.3	49.1	26.6	54.2	30.8	48.9	28.4	49.9	30.9	53.7	30.4	51.8	32.0	46.1	25.0			49.2	26.2	53.9	32.4

Date.	Mississippi.																						Louisiana.					
	Kosciusko. ‖		Natchez. ‖		Vicksburg.		Alexandria. ‖		Baton Rouge. ‖		Covington. ‖		Lafayette. ‖		Lake Charles. ‖		Monroe. ‖		New Orleans.		Robeline. ‖		Schriever. ‖		Shreveport.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1	58	34	58	34	60	34	60	36	62	36	68	38	66	36	68	38	66	36	68	38	68	38			66	36		
2	57	34	58	34	60	34	60	36	62	36	68	38	66	36	68	38	66	36	68	38	68	38			66	36		
3	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
4	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
5	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
6	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
7	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
8	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
9	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
10	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
11	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
12	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
13	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
14	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
15	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
16	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
17	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
18	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
19	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
20	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
21	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
22	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
23	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
24	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
25	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
26	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
27	54	32	54	32	56	32	56	34	58	34	64	36	62	34	64	36	62	34	64	36	64	36			62	34		
28	52	30	52	30	54	30	54	32	56	32	62	34	60	32	62	34	60	32	62	34	62	34			60	32		
Means	52.7	32.0	58.8	37.3	58.7	37.2	60.4	35.6	58.8	42.2	63.0	39.2	62.4	40.7	66.7	37.2	59.1	34.1	61.9	45.2	58.9	31.6			55.6	36.0		

Climatological Data for February, 1910.
DISTRICT No. 8, TEXAS AND RIO GRANDE VALLEY.

BERNARD BUNNEMEYER, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

The month was considerably colder than usual, with decidedly deficient precipitation over much the greater portion of the district. The principal feature of the weather was a severe cold wave from the 15th to the 19th, which gave the coldest weather of the month, with freezing temperature throughout the district and temperature below zero in Colorado and New Mexico, and near zero in northern Texas. It was accompanied by snow in most portions of the district and by heavy sleet in many of the coast counties.

Heavy rains occurred in extreme eastern Texas, with amounts ranging from 4 to over 6 inches, the heaviest being 10.60 inches at Lufkin, and the next heaviest, 9.76, at Nacogdoches. Within a radius of approximately 150 miles from Lufkin as a center the precipitation exceeded the normal. There was also a moderate excess in a few localities in Colorado and extreme northern New Mexico, but elsewhere there was a general and decided deficiency. The least precipitation occurred in the middle, western, and extreme southern portions of the district. At 23 stations in New Mexico and 22 in western and southwestern Texas there was either no precipitation or the amounts were too small to be measured, while at 14 other stations in New Mexico and 8 in Texas the amounts were only 0.10 inch or less.

Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at the following Texas stations: Anahuac, 2.85; Beaumont, 3.96; Columbia, 2.90; Crockett, 3.99; Galveston, 3.74; Huntsville, 2.52; Lufkin, 5.31; and Nacogdoches, 3.80 inches. Some of the precipitation in Texas, and nearly all in New Mexico and Colorado was in the form of snow, the greatest amounts reported being 43 inches in Colorado, 45 in New Mexico, and 6.5 in Texas. The number of rainy days with 0.01 or more precipitation averaged slightly over 3 for the district, being least in New Mexico and greatest in Colorado. There was an average of 14 clear days.

TEMPERATURE.

The temperature was below the normal, except in portions of the Rio Grande Valley. The deficiency was greatest in the eastern portion of the district, in the region of heaviest precipitation, where the temperature ranged from 4° to over 5° below the normal. Two cold spells occurred during the month. The first overspread the district on the 3d and 4th, and the second, which was much the severer, on the 16th and 17th. During the prevalence of the latter the lowest temperatures of the month occurred throughout the district, ranging in Colorado from −17° at Blanca to −33° at Wagon Wheel Gap; in New Mexico from 10° at Newman and Noria to −27° at Tres Piedras; and in Texas from 32° at Brownsville to −1° at Waxahachie.

During the third decade the weather was generally warm, but warm weather occurred also on a number of days during the first and second decades. The highest temperatures reported were: In Colorado, 62° on the 14th at Saguache; in New Mexico, 81° on the 25th at Roswell; and in Texas, 98° on the 15th at Zapata. The local monthly means ranged from 10.6° to 27.2° in Colorado; from 15.8° to 47.6° in New Mexico; and from 39.7° to 63.6° in Texas.

PRECIPITATION.

The precipitation over the Rio Grande watershed was generally deficient. There was, however, a moderate excess over a few limited areas in the extreme upper portion, but south of Espanola a decided deficiency occurred, which was most marked over the Texas stretch of the watershed. The deficiency averaged 0.10 inch in Colorado, 0.25 inch in New Mexico, and 0.98 inch in Texas. The snowfall in the mountains and upper valleys reached a maximum of 43 inches at Cumbres, Colo., and of 45 inches at Chama, N. Mex. There was very little snow over the long reach south of Mountainair, N. Mex.

In the Rio Pecos watershed the precipitation was also decidedly deficient, the deficiency ranging from a minimum of 0.21 inch in Texas to a maximum of 0.60 inch in New Mexico. The average for the watershed was less than one-half inch. The snowfall was slightly heavier than during the preceding month, the greatest amount reported being 22 inches at Corona, N. Mex. In a large number of localities in both the Rio Pecos and Rio Grande valleys there was either no precipitation or the amounts were too small to be measured.

In the Texas watersheds there was a general deficiency of precipitation, except over the Neches and the greater portion of the Sabine, although a few limited areas of the Colorado, Brazos and Trinity also received more than the normal amounts. In general, the monthly amounts increased from west to east, attaining a maximum average of 5.51 inches over the Neches watershed. A marked deficiency occurred over the coastal plains. The following are the average monthly amounts in inches for the various drainage basins: Nueces, 0.21; San Antonio, 0.73; Guadalupe, 1.55; Lavaca, 2.04; Colorado, 0.68; Brazos, 1.62; Trinity, 2.72; Neches, 5.51; Sabine, 3.54; and the coastal plains, 1.34 inch. The heaviest local rainfall was 10.60 inches at Lufkin in the Neches watershed.

RIVER CONDITIONS AND MISCELLANEOUS.

The rivers remained at about the same low level as during the preceding month and maintained an even flow, except the lower Trinity and the Neches and Sabine, which carried larger volumes of water. At Rockland the Neches rose from the 3d to the 11th, reaching a maximum stage of 13.8 feet on that day. The Sabine at Logansport rose several feet from the 2d to the 5th, and 6 feet on the last day of the month, when it attained a stage of 15.2 feet and was still rising.

The following has been taken from the Reclamation Record for March, 1910:

New Mexico, Hondo Project.—During February there has been no water in the river and none available for irrigation.

New Mexico, Leasburg Project.—On February 3 water was turned into the canal for the first time for irrigation in 1910. Since that time about 530 second-feet have been diverted from the river.

In portions of the district the weather has been dusty and too dry for plowing. The freeze of the 17th and 18th caused some damage to tomatoes, both in hotbeds and in cold frames, and to fall oats, but will probably be of benefit to the fruit and general crops.

SNOWFALL IN THE MOUNTAINS.

Mr. F. H. Brandenburg, Section Director, Colorado Section, reports as follows:

In general, the snowfall during February was less than the average, and much less than for the corresponding month last year. There were a number of sharp changes in temperature, the alternate warm and cold spells being very favorable for settling and solidifying the old snow.

Compared with the usual depth at the close of February, conditions are more favorable on the upper reaches of the Rio Grande, the average, or somewhat more than the average, depth being reported. At high altitudes the snow is well packed; at moderate elevations, where the depths are not great, the condition of the snow is favorable for early melting.

Mr. C. E. Linney, Section Director, New Mexico Section, reports as follows:

There was an increase in the amount of snow in the Rio Grande drainage area. On the south slopes of the mountains and in the valleys a great deal of the snow melted toward the close of the month and some of the streams carried a fair volume of water, but on the north slopes and in the higher mountains there remained a vast amount of compact snow. In many places it had become almost solid ice, which will melt slowly and this gives assurance of late flow and an abundance of water in the Rio Grande and its tributaries.

In the Pecos and Southeast watersheds the depth of snow was below the average, except over the headwaters of the Pecos in San Miguel County. The mountains drained by the streams of the lower Pecos were almost without snow. The average depth of the snow in the mountains of the Rio Grande watershed was 32 inches and of the lower Rio Pecos, 6 inches.

TABLE 1.—*Climatological data for February, 1910. District No. 8, Texas and Rio Grande Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Colorado.																				
Blanca	Costilla	8,403	1	21.8	.....	52	14	−17	18	44	0.06	.....	0.03	3.0	3	10	17	1	sw.	L. C. Audrain.
Cumbres	Conejos	10,015	3								3.29	.....	0.75	43.0	12	12	5	11	sw.	Ida M. Lively.
Garnett	Costilla	7,576	17	21.0	− 2.7	55	14	−21	17	45	0.33	+ 0.12	0.21	5.0	3	16	7	5	w.	Chas. Speiser.
Hermit	Hinsdale	9,843	..								0.91	.....	0.48	12.0	6	13	5	10	.....	Marion Mason.
La Veta Pass	Costilla	9,000									1.39	.....	0.85	13.4	4	9	14	5	w.	Norvin R. Lively.
Manassa	Conejos	7,700	4	22.1	.....	52	14	−22	17	46	0.15	.....	0.10	3.0	2	10	14	4	sw.	J. B. Chapman.
Platoro	...do	9,675	2								1.46	.....	0.29	23.9	11	17	5	6	w.	Walter R. Hook.
Saguache	Saguache	7,740	18	27.2	+ 2.3	62	14	−19	17	62	0.29	+ 0.01	0.21	3.8	4	18	4	6	w.	Eugene Williams.
San Luis	Costilla	7,794	19	24.6	− 0.8	51	14	−18	17	43	0.29	− 0.30	0.29	2.9	1	17	7	4	sw.	P. B. Albright.
Wagon Wheel Gap	Mineral	8,434	11	10.6	− 6.5	48	23	−33	17	58	0.50	− 0.23	0.15	10.0	5	16	8	4	w.	Ellwood Bergey.
New Mexico.																				
Agricultural College	Dona Ana	3,863	44	44.8	− 1.6	77	25	9	17	44	0.02	− 0.48	0.02	0.0	1	17	10	1	sw.	New Mexico Agri. College.
Alamogordo (near)	Otero	4,338	9	44.3	.....	71	14	4	17	48	0.00	.....	0.00	0.0	0	19	6	3	sw.	Geo. C. Bemis.
Alamogordo	...do	4,320									0.00	.....	0.00	0.0	0				.....	El Paso & Southwest. R. R.
Albuquerque	Bernalillo	5,200	34	42.6	+ 3.3	68	24	5	17	46	0.31	− 0.07	0.21	2.8	4	17	7	4	nw.	University of New Mexico.
Ancho	Lincoln	6,112									0.00	.....	0.00	0.0	0				.....	El Paso & Southwest. R. R.
Artesia	Eddy	3,350	....	44.7	.....	79	25†	2	17	58	T.	.....	T.	0.0	0	17	9	2	sw.	Will Benson.
Aspen Grove Ranch	Rio Arriba	9,000									2.20	.....	0.58	34.1	6	17	4	7	.....	Junius D. Maupin.
Bateman's Ranch	...do	8,900									1.08	.....	0.36	16.0	5	16	7	5	w.	John W. Bateman.
Bluewater	Valencia	6,732	8	30.6	.....	62	14	−15	17	49	0.34	.....	0.24	3.0	3	13	10	5	nw.	Bluewater Development Co.
Bluewater Reservoir	...do	9,000	1																	Do.
Boas	Chaves	4,154	1	37.8	.....	73	28	− 7	17	54	0.02	.....	0.02	0.0	1	14	13	1	w.	D. C. Savage.
Capitan	Lincoln	6,348																		El Paso & Southwest. R. R.
Carlsbad	Eddy	3,120	15	47.6	+ 0.6	79	22†	6	17	53	0.00	− 0.29	0.00	0.0	0	18	9	1	se.	U. S. Reclamation Service.
Carrizozo	Lincoln	5,429	2								T.		T.	T.	0	27	1	0	sw.	A. H. Harvey.
Chama	Rio Arriba	7,851	11	19.6	− 6.8	48	14	−16	18	46	3.04	− 0.09	1.05	45.0	6	20	4	4	sw.	Frank C. Johnson.
Cloudcroft	Otero	8,650	7	34.0	.....	63	28	− 1	17	46	T.	.....	T.	0.0	0	18	9	1	sw.	El Paso & Southwest. R. R.
Corona	Lincoln	6,666	....								1.62	.....	1.10	22.0	3	17	5	6	ne.	Do.
Coyote	...do	5,800									0.32	.....	0.32	T.	1	15	1	12	sw.	Do.
Cundiyo	Santa Fe	6,889	1								0.09	.....	0.28	6.0	6	14	5	9	w.	Teofilo Vijil.
Demonstration Farm	San Miguel	6,800	1								0.25	.....	0.17	2.0	3				.....	Erb & Westerman.
Duran	Torrance	6,272	1								0.47	.....	0.47	6.0	1	24	0	4	.....	W. H. Birkhead.
Edison Mine	Taos	10,600	....																	Frank L. Paxton.
Elida	Roosevelt	4,345									0.01	.....	0.01	0.1	1	21	6	1	sw.	M. W. Waldron.
Elk (near)	Chaves		11	39.4	− 1.7	69	28	− 3	17	42	T.	− 0.39	T.	T.	0	19	7	2	e.	Boyd Williams.
Escondido	Otero	4,014				74	25				0.00	.....	0.00	0.0	0	9	14	5	nw.	El Paso & Southwest. R. R.
Espanola	Rio Arriba	5,590	12	31.8	− 3.6	64	27	1	17	42	0.76	+ 0.48	0.40	9.0	3	22	1	5	n.	Mrs. E. F. McBride.
Estancia	Torrance	6,140	5	30.6	.....	62	14†	−21	5	52	0.87	.....	0.87	9.5	1	16	8	4	nw.	New Mex. Central R. R.
Fort Stanton	Lincoln	6,231	32	36.6	− 2.0	70	14†	− 9	17	51	0.37	− 0.30	0.22	4.0	3	20	3	5	w.	U. S. Sanitarium.
Fort Sumner	Guadalupe	3,960	7	37.7	.....	75	14	− 4	16	57	T.	.....	T.	0.0	0	15	12	1	nw.	F. A. Manzanares.
Gallinas	Lincoln	6,635						− 6	17		0.65	.....	0.35	8.0	2	24	0	4	w.	El Paso & Southwest. R. R.
Gallinas Planting Station	San Miguel	7,500	3	28.9°	.....	62°	13	−18°	17	53°	0.76	.....	0.45	11.0	4	10	14	4	w.	U. S. Forest Service.
Harvey's Upper Ranch	...do	9,400	1																	Simon B. Warner.
Hillsboro	Sierra	5,224	13	43.4	− 0.9	75	25†	5	17	49	0.01	− 0.77	0.01	0.0	1	9	16	3	w.	Dr. Frank I. Givens.
Hodges	Taos	8,484									0.86	.....	0.42	13.8	5	17	5	6	n.	Jas. D. Bird.
Hondo Reservoir	Chaves	3,904	1	41.8	.....	80	25	− 4	17	54	0.03	.....	0.03	0.4	1	21	5	2	n.	U. S. Reclamation Service.
Hope	Eddy		3																	C. M. Bott.
Hopewell	Rio Arriba	9,500	....	16.8	.....	43	24	−24	17	35	1.08	.....	0.30	19.0	8	9	13	6	w.	John T. Blanton.
Jemez Springs	Sandoval	6,100																		Linus L. Shields.
Laguna	Valencia	5,840	5	33.4	.....	63	14	−12	17	40	0.49	.....	0.40	5.0	2	15	11	2	w.	Gus Weiss.
Lagunita	Guadalupe	4,500	5	40.2	.....	72	14	− 8	17	46	0.15	.....	0.12	2.0	2	16	6	6	w.	P. A. Turnbull.
Lake Valley	Sierra	5,413	5								T.	.....	T.	0.5	0	20	7	1	sw.	Wm. P. Keil.
Las Vegas	San Miguel	6,384	23	33.6	− 0.6	63	14†	−16	17	48	0.30	− 0.60	0.13	3.2	3	20	6	2	w.	Dr. Wm. Curtiss Bailey.
Liston	Chaves										0.02	.....	0.02	0.5	1	11	13	4	w.	H. G. Liston.
Los Lunas (near)	Valencia	4,900	20	34.9	− 3.6	69	28	1	17	49	0.12	− 0.31	0.12	1.0	1	20	7	1	.....	Richard Pohl.
Los Tanos	Guadalupe	4,919									0.04	.....	0.04	0.5	1	18	5	5	w.	El Paso & Southwest. R. R.
Magdalena	Socorro	6,557	5	35.4	.....	66	22	− 3	17	45	0.09	.....	0.09	1.0	1	17	8	3	w.	Wm. Pender.
Malaga	Eddy	3,000									0.00	.....	0.00	0.0	0	11	11	6	s.	Capt. Chas. Grapes.
Mineral Hill	San Miguel	7,050	5								0.82	.....	0.42	8.5	3	14	11	3	sw.	W. M. Nelson.
Monterey	Otero	4,436				80	24	6	17	....	0.00	.....	0.00	0.0	0	21	1	6	sw.	El Paso & Southwest. R. R.
Monument	Eddy	3,500	4																	Jas. M. Cook.
Mountainair	Torrance	6,547	8	32.6	.....	65	24	− 8	17	44	1.24	.....	1.06	16.0	2	22	3	3	sw.	Mrs. John W. Corbett.
Newman	Otero	3,989	....			75	25	10	17	....	0.10	.....	0.10	0.0	1	24	1	3	sw.	El Paso & Southwest. R. R.
Noria	Dona Ana	4,114	....					10.	17	....	0.03	.....	0.03	0.0	1	25	1	2	w.	Do.
Orange	Otero		....																	Jas. Brownfield, jr.
Orogrande	...do	4,171				78	24				T.	.....	T.	0.0	0	16	9	3	w.	El Paso & Southwest. R. R.
Oscura (near)	Lincoln	5,016	1								0.01	.....	0.01	0.0	1	16	11	1	s.	Eugene F. Jones.
Otis	Eddy	3,100	1								T.	.....	T.	0.0	0	23	3	2	se.	A. M. Hove.
Otto	Santa Fe	6,200	1								0.21	.....	0.12	2.6	3				w.	W. K. Davis.
Pastura	Guadalupe	5,285	....								0.50	.....	0.25	3.0	3	1	24	3	w.	El Paso & Southwest. R. R.
Picacho (near)	Lincoln		....																	P. D. Southworth.
Red River Canyon	Taos	8,650	2	19.6		48	7	−26	17	54	1.71	.....	0.65	26.0	6	18	5	5	e.	Mrs. L. R. Penn.
Rincon	Dona Ana	4,030	12	47.0	+ 1.2	78	14†	4	17	52	T.	− 0.23	T.	0.0	0	13	11	4	w.	Chas. H. Raitt.
Rio Grande Dam	Sierra	4,265	12	44.2	+ 0.6	75	28	5	17	48	T.	− 0.24	T.	T.	0	23	4	1	sw.	U. S. Reclamation Service.
Rosedale	Socorro	6,910	5	36.9	.....	61	14†	2	17	31	0.09	.....	0.04	1.3	4	19	2	7	w.	W. H. Martin.
Roswell	Chaves	3,578	12	41.6	− 0.9	81	25	− 1	17	52	0.11	− 0.48	0.11	0.0	1	11	15	2	nw.	U. S. Weather Bureau.
San Marcial	Socorro	4,439	14	43.0	− 1.1	78	15	0	16	40	0.00	− 0.35	0.00	0.0	0	17	6	5	s.	Atch., Topeka & S. F. R. R.
San Rafael	Valencia	6,509	6	38.6°	.....	70°	23	−11°	17	66°	0.42	− 0.17	0.24	5.0	2	20	6	2	n.	Dr. Chas. M. Grover.
Santa Fe	Santa Fe	7,013	37	30.0	− 2.0	56	24	− 3	17	31	0.08	− 0.76	0.04	1.0	3	15	10	3	n.	U. S. Weather Bureau.
Santa Fe Canyon	...do	8,000									0.00	.....	0.00	0.0	0	18	1	9	w.	Candelario Martinez.
Santa Rosa	Guadalupe	4,624	10	39.5	.....	70	14†	6	17	51	T.	− 0.58	T.	T.	0	19	8	1	w.	John L. Chapman.
Socorro	Socorro	4,600	19	39.6	− 1.9	69	13	1	17	51	T.	− 0.38	T.	T.	0	25	3	0	sw.	J. J. Leeson.
Stanley	Santa Fe	6,317	1	28.6	.....	63	24	−17	17	51	0.24	.....	0.18	2.0	2	19	6	3	nw.	Wilbur F. Castle.
Strauss	Dona Ana	4,080	11								0.06	− 0.28	0.06	0.0	1	14	13	1	ne.	Southern Pacific Co.
Swastika Ranch	Valencia	6,400	....								1.52	.....	0.73	13.3	5	23	4	1	nw.	Swastika S. & L. Co.
Taft	Guadalupe		....																	A. J. Wilmeth.
Taos	Taos	6,983	12	29.0	− 2.8	54	1†	−11	17	39	1.15	+ 0.21	0.60	13.0	5	19	8	1	w.	Alexander Gusdorf.
Taos Canyon	...do	8,959	....								1.16	.....	0.40	10.3	6				.....	Leocadio Martinez, jr.
Tecolote	Lincoln	6,539	....								0.84	.....	0.74	6.8	4	23	1	4	w.	El Paso & Southwest. R. .R
Three Rivers	Otero	4,559	....								T.	.....	T.	0.0	0	21	1	6	.....	Do.
Torrance	Torrance	6,433	....								0.89	.....	0.81	10.0	2	13	10	5	w.	Do.
Tres Piedras	Taos	8,076	5	18.7	.....	48	13†	−27	17	55	1.22	.....	0.80	13.0	2	19	4	5	sw.	Edwin B. Seward.
Truchas	Rio Arriba	7,935	1			52	14				0.80	.....	0.64	10.0	2	8	14	6	.....	Ignacio Cordova.
Tularosa	Otero	4,436	2	44.4	.....	72	24	7	17	40	0.00	.....	0.00	0.0	0	14	12	1	sw.	Irby L. Fairless.
Vaughn	Guadalupe	5,952	....								0.18	.....	0.18	2.0	1				.....	El Paso & Southwest. R. R.
Winsors	San Miguel	8 200	12	25.1	− 3.3	52	14†	−18	17	42	1.10	− 0.42	0.31	13.0	6	13	6	9	w.	Henry D. Winsor.

TABLE 1.—*Climatological data for February, 1910. District No. 8*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Texas.																				
Abilene	Taylor	1,738	25	44.5	− 0.3	82	15	11	17	48	0.21	− 0.87	0.13	0.1	3	11	11	6	s.	U. S. Weather Bureau.
Albany	Shackelford	1,429	16	43.5	− 1.0	81	15	7	17†	48	0.50	− 0.57	0.30	3.0	2	20	4	4	.....	N. L. Bartholomew.
Alvin	Brazoria	49	11	.....	.....	.....	.....	.....	.....	.....	3.11	− 0.07	2.04	0.0	5	6	5	17	ne.	F. A. Smith.
Anahuac	Chambers	23	1	.....	.....	.....	.....	.....	.....	.....	2.85	.....	1.53	0.0	5	.....	.....	.....	.....	B. H. Collins.
Austin	Travis	593	24	49.5	− 3.0	74	13†	19	18	46	2.47	+ 0.22	1.65	0.0	8	14	8	6	e.	A. Deussen.
Ballinger	Runnels	1,637	15	46.1	+ 0.2	82	15	8	18	54	T.	− 0.88	T.	0.0	0	13	4	11	n.	E. M. Eubank.
Barstow	Ward	2,573	3	48.7	.....	83	14	9	4†	56	T.	.....	T.	0.0	0	26	0	2	w.	W. H. Denis.
Bay City	Matagorda	53	.....	.....	.....	.....	.....	.....	.....	.....	1.88	.....	1.10	0.0	3	17	3	8	s.	E. C. Quereau.
Beaumont	Jefferson	29	13	52.9	.....	82	20	22	17	35	4.98	+ 1.37	3.96	0.0	5	12	0	16	se.	John Bender.
Beeville	Bee	225	14	54.5	+ 0.4	83	2	22	18	35	0.77	− 1.39	0.67	0.0	3	9	7	12	n.	L. E. Dickey.
Big Springs	Howard	2,398	12	47.2	.....	78	14†	8	17	45	0.03	− 0.51	0.03	0.0	1	20	5	3	s.	B. Reagan.
Blanco	Blanco	1,350	14	45.6	− 3.3	79	1	14	18	48	1.09	− 0.82	0.50	0.0	5	17	9	2	n.	R. C. Crist.
Boerne	Kendall	1,412	18	52.5	+ 2.6	78	2†	19	16	53	0.68	− 1.01	0.40	0.0	4	7	10	11	n.	F. W. Schweppe.
Booth	Fort Bend	81	9	.....	.....	.....	.....	.....	.....	.....	2.38	.....	1.10	0.0	6	11	0	17	n.	T. R. Booth.
Bowie	Montague	1,113	16	44.1	− 0.9	82	15	9	18	50	0.57	− 1.13	0.39	1.5	5	14	6	8	n.	Craig Anderson.
Brazoria	Brazoria	25	21	54.0[b]	− 1.3	83[b]	21	20	18	40[b]	2.86	− 0.38	2.02	T.	11	10[a]	4[a]	7[a]	s.	Mrs. M. A. Stevens.
Brazos	Palo Pinto	801	1	.....	.....	.....	.....	.....	.....	.....	0.67	.....	0.53	1.5	2	17	2	9	n.	Robt. E. Boyett.
Brenham	Washington	350	21	48.2	− 5.0	77	22	18	18	45	1.55	− 1.59	0.68	0.0	6	9	3	16	n.	Mrs. B. F. Sloan.
Bridgeport	Wise	754	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. M. Wilkinson.
Brighton	Nueces	12	14	57.5	− 0.2	78	20	26	18	39	1.66	− 0.33	1.52	0.0	4	10	11	7	se.	G. H. Ritter.
Brownsville	Cameron	38	21	60.8	− 2.3	87	23	32	18	33	0.25	− 1.19	0.11	0.0	4	.....	.....	.....	n.	U. S. Weather Bureau.
Brownwood	Brown	1,342	20	44.4	− 4.2	83	14	10	17	58	0.03	− 1.11	0.03	T.	1	17	7	4	n.	Mrs. Pearl Smith.
Cameron	Milam	.....	2	46.3	.....	79	22	16	18	43	2.54	.....	1.62	0.0	7	19	6	3	n.	J. E. Watts.
Carmona	Polk	330	2	49.0	.....	76	22	15	18	41	3.18	.....	1.15	2.5	9	13	3	12	s.	M. S. Spitler.
Claytonville	Fisher	2,100	6	45.8	.....	80	2†	10	17†	62	0.00	.....	0.00	0.0	0	21	6	1	s.	Wm. Lanius.
Coleman	Coleman	1,710	16	51.0	+ 3.8	86	15†	12	17	51	T.	− 0.97	T.	0.0	0	18	6	4	s.	J. H. Tucker.
College Station	Brazos	308	19	49.6	− 2.6	77	22	17	18	43	2.47	+ 0.03	0.88	0.0	11	10	10	8	n.	Prof. G. S. Fraps.
Colorado	Mitchell	2,066	16	41.9[f]	− 5.6	80[b]	26	3[a]	16	53[a]	0.20	− 0.51	0.10	0.0	2	.....	.....	.....	.....	R. M. Webb.
Columbia	Brazoria	34	21	52.1	− 3.8	77	21	18	18	40	3.77	+ 0.49	2.90	0.0	5	11	10	7	e.	R. B. Loggins.
Columbus	Colorado	206	6	.....	.....	.....	.....	.....	.....	.....	1.76	.....	0.72	0.0	6	8	8	12	nw.	Mrs. Sophie Bridge.
Comstock	Valverde	1,557	1	51.0	.....	80	15	16	17	36	T.	.....	T.	0.0	0	25	1	2	se.	A. D. Brown.
Corpus Christi	Nueces	20	23	54.6	− 3.1	75	2	26	18	42	0.66	− 1.38	0.60	0.0	4	9	10	9	n.	U. S. Weather Bureau.
Corsicana	Navarro	445	21	44.8	− 4.6	75	15	9	18	47	2.74	− 0.14	1.05	3.0	6	10	3	15	se.	E. L. Gibson.
Crockett	Houston	350	6	48.0	.....	75	22	11	18	39	6.06	.....	3.99	3.0	9	11	8	9	n.	A. M. Rencher.
Cuero	DeWitt	177	21	50.1	− 3.5	80	20	19	18	53	2.59	+ 0.01	1.00	0.0	5	13	0	15	n.	H. R. Frobese.
Dallas	Dallas	466	21	42.0	− 4.0	77	20†	2	19	55	2.45	+ 0.38	1.52	5.5	7	17	0	11	s.	G. A. Eisenlohr.
Danevang	Wharton	145	14	50.8[f]	− 3.3	80	22	28[f]	5	36[f]	0.45	− 2.90	0.45	0.0	1	18	2	8	se.	H. P. Hermansen.
Decatur	Wise	1,047	4	46.4	.....	72	21†	17	16	45	0.12	.....	0.10	1.2	2	24	2	2	.....	Fort Worth & Denver Ry.
Del Rio	Valverde	952	4	53.6	0.0	85	26	20	18	37	0.02	− 1.76	0.02	0.0	1	21	6	1	se.	U. S. Weather Bureau.
Devine	Medina	653	.....	54.2	.....	84	15†	18	18	46	0.12	.....	0.10	0.0	2	12	6	10	se.	M. A. Keller.
Dialville	Cherokee	575	12	47.2	.....	73	14†	9	18	53	3.96	.....	2.25	3.0	7	10	10	8	n.	J. M. B. McKnight.
Dilley	Frio	569	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John W. Miller.
Dublin	Erath	1,466	15	43.4	− 2.0	76	15	11	17	41	0.42	− 0.92	0.20	1.0	3	7	9	12	n.	Jno. O. Shafer.
Duval	Travis	820	21	49.2	− 4.0	77	15	16	18	42	2.20	+ 0.48	0.71	T.	7	16	4	8	s.	J. C. Edgar.
Eagle Pass	Maverick	800	21	53.8	− 2.6	85	2†	23	17†	47	0.03	− 0.80	0.03	0.0	1	2	26	0	.....	Jos. Metcalfe.
Edna	Jackson	71	1	.....	.....	.....	.....	.....	.....	.....	1.86	.....	0.70	0.0	6	.....	.....	.....	.....	E. L. Faires.
El Paso	El Paso	3,762	31	47.8	− 1.1	76	25	12	17	38	0.10	− 0.36	0.10	0.0	1	18	9	1	w.	U. S. Weather Bureau.
Encinal	La Salle	558	2	56.3[a]	.....	88[a]	15	20[a]	18	46[a]	0.08	.....	0.08	0.0	1	11[b]	11[b]	4[b]	se.	H. C. Braden.
Fairland	Burnet	1,000	1	48.3	.....	80	20	14	18	42	1.25	.....	0.63	0.0	5	18	3	7	s.	R. L. Bush.
Falfurrias	Starr	.....	3	59.0	.....	91	2	20	18	42	0.13	.....	0.13	0.0	1	23	1	4	nw.	W. A. Gardner.
Flatonia	Fayette	465	2	50.9	.....	80	22	18	18	41	1.97	.....	0.59	0.0	10	12	6	10	s.	Fred W. Laux.
Flint	Smith	483	.....	45.4	.....	75	15	5	18	43	3.82	.....	1.26	6.0	8	7	12	9	se.	F. C. C. Carter.
Fort Clark	Kinney	1,050	23	51.1	− 4.4	80	1†	18	17	46	0.00	− 0.75	0.00	0.0	0	17	9	2	e.	Post Hospital.
Fort McIntosh	Webb	460	24	63.6	+ 3.5	92	2	26	17	42	0.03	− 1.02	0.03	0.0	1	20	3	5	nw.	Do
Fort Stockton	Pecos	3,050	13	50.0	+ 2.1	84	25	8	17	50	0.22	− 0.21	0.22	0.0	1	17	11	0	sw.	H. H. Butz.
Fort Worth	Tarrant	670	15	44.6	− 3.5	77	15	11	17	50	1.14	− 0.13	0.87	1.5	6	14	8	6	nw.	U. S. Weather Bureau.
Fredericksburg	Gillespie	1,742	21	48.0[b]	− 1.8	75[b]	2†	15	17	45[b]	1.23	− 0.22	0.66	0.5	4	16	6	6	n.	Arthur Striegler.
Gainesville	Cooke	738	21	44.2	− 1.8	80	15	8	18	50	1.55	− 0.17	0.83	2.2	4	.....	.....	.....	.....	J. L. Hickson.
Galveston	Galveston	69	40	51.0	− 4.6	72	21	24	18	28	4.41	+ 1.31	3.74	0.1	7	5	8	15	se.	U. S. Weather Bureau.
Gatesville	Coryell	795	6	47.0	.....	75	2†	12	18	46	1.10	.....	0.40	2.0	5	19	9	0	.....	John Ryan.
Georgetown	Williamson	750	15	44.8	− 4.7	77	20	15	18†	41	1.32	− 0.81	0.70	0.0	6	14	6	8	n.	Prof. R. F. Young.
Gonzales	Gonzales	299	5	.....	.....	.....	.....	.....	.....	.....	2.32	.....	1.03	0.0	6	11	2	15	n.	J. M. Johnson.
Graham	Young	1,040	11	44.6	− 0.8	87	22	10	18	54	0.58	− 0.58	0.28	3.0	3	17	3	8	n.	C. W. Johnson.
Grand Saline	Van Zandt	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.51	.....	1.63	2.8	6	13[a]	10[a]	4[a]	n.	F. E. Whittemore.
Grapevine	Tarrant	670	20	47.0[b]	+ 0.3	79[b]	15	11[b]	18	64[b]	1.38	− 2.49	0.96	2.0	5	14[b]	4[b]	8[b]	n.	W. J. Crowley.
Greenville	Hunt	550	10	42.4	− 4.1	75	15	3	18	44	1.45	− 1.18	0.85	1.0	3	10	0	18	n.	J. P. Regan.
Hallettsville	Lavaca	235	19	50.9	− 2.8	76	23	22	18	34	2.21	− 0.02	1.12	0.0	5	9	8	11	s.	Dr. J. E. Lay.
Harper	Gillespie	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.57	.....	0.23	0.0	5	15	0	13	.....	Christian Fritz.
Haskell	Haskell	4,013	19	44.2	+ 0.6	86	15	10	17†	50	T.	− 0.90	T.	T.	0	18	2	8	n.	P. D. Sanders.
Hebbronville	Duval	.....	3	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	Henry Edds.
Hempstead	Waller	254	6	.....	.....	.....	.....	.....	.....	.....	1.59	.....	0.75	0.2	4	7	4	17	n.	J. H. Hancock.
Henderson	Rusk	500	1	.....	.....	.....	.....	.....	.....	.....	5.19	.....	2.05	4.0	7	6	8	14	.....	M. Kangerga.
Hewitt	McLennan	664	15	.....	.....	.....	.....	.....	.....	.....	2.52	+ 0.28	1.35	4.2	6	.....	.....	.....	.....	I. H. Earle.
Hillsboro	Hill	628	7	48.4	.....	78	3	9	17	43	3.69	+ 0.40	2.03	0.0	3	.....	.....	.....	.....	Thompson & Campbell.
Hondo	Medina	901	8	51.5	.....	79	22†	17	18	37	0.28	.....	0.22	0.0	2	11	14	3	.....	H. E. Haass.
Houston	Harris	138	21	51.2	− 2.8	75	21	21	18	44	2.31	− 1.19	1.41	0.0	9	6	11	11	se.	U. S. Weather Bureau.
Huntsville	Walker	400	22	46.0	− 5.4	75	22	15	19	45	4.41	+ 1.00	2.52	0.0	5	9	0	19	se.	W. Y. Barr.
Jewett	Leon	496	6	44.8	.....	77	22	11	18	44	5.05	.....	1.65	6.5	6	15	1	12	n.	Earle Adkisson.
Junction	Kimble	1,645	7	51.4	.....	84	21	9	5	60	0.00	.....	0.00	0.0	0	15	0	13	n.	Judge John S. Durst.
Kaufman	Kaufman	448	11	46.3	− 2.2	73	15	7	18	49	2.94	− 0.61	1.15	6.0	5	14	7	7	n.	B. J. Hubbard.
Keene	Johnson	940	2	45.8	.....	75	15†	11	17	51	2.85	.....	2.10	1.0	5	15	10	3	.....	Industrial Academy.
Kerrville	Kerr	1,650	15	47.3	+ 0.7	79	20	10	18	54	1.03	− 0.28	0.72	0.0	5	10	8	10	.....	Mrs. F. Coleman.
Knickerbocker	Tom Green	2,050	6	48.4	.....	83	15	12	17	50	T.	.....	T.	0.0	0	20	6	2	s.	Jos. Tweedy.
Kopperl	Bosque	576	10	.....	.....	.....	.....	.....	.....	.....	1.84	− 0.25	0.62	1.4	5	9	7	12	n.	T. A. Johnson.
Lampasas	Lampasas	1,026	19	45.7	− 2.3	79	1†	12	18	66	1.91	− 0.07	0.81	4.9	5	12	12	4	n.	Mrs. K. L. Webber.
La Parra	Cameron	38	8	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	John G. Kennedy.
Laureles Ranch	Nueces	20	11	.....	.....	.....	.....	.....	.....	.....	0.82	− 1.43	0.68	0.0	2	.....	.....	.....	.....	Matt Cody.
Le Min Ranch	Terrell	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lewis Le Min.
Liberty	Liberty	38	6	53.2	.....	81	21	20	18	44	2.72	.....	2.00	T.	3	13	6	9	n.	Mrs. Fannie Sneed.
Llano	Llano	1,040	19	50.4	+ 0.2	78	22	17	17	52	0.04	− 1.17	0.02	0.0	2	21	4	3	e.	E. W. Torrence.
Llano Grande	Hidalgo	86	3	60.1	.....	94	16	22	18	65	T.	.....	T.	0.0	0	17	5	6	se.	M. D. Wardlow.
Long Lake	Anderson	220	5	.....	.....	.....	.....	.....	.....	.....	4.20	.....	2.28	0.1	5	7	1	20	n.	Tom Ritson.
Longview	Gregg	336	21	44.2	− 4.2	76	14	9	18	48	3.99	+ 0.35	2.14	0.5	5	9	0	19	ne.	C. A. Propst.
Lufkin	Angelina	325	3	48.6	.....	74	22	15	18	37	10.60	.....	5.31	1.0	8	15	2	11	s.	T. A. King.
Luling	Caldwell	418	21	50.1	− 3.8	78	14	19	18	42	1.49	− 0.88	0.75	0.0	5	8	3	17	n.	John Carter.
McGregor	McLennan	713	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. E. Streight.
Marathon	Brewster	4,043	.....	46.6[d]	.....	73	14†	4[f]	15	34[f]	0.00	.....	0.00	0.0	0	21	2	5	.....	Rev. A. P. Willis.

TABLE 1.—*Climatological data for February, 1910. District No. 8*—Continued.

Stations	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Texas—Cont'd.																				
Marble Falls	Burnet	771	2	.....	.....	.....	.....	.....	.....	.....	1.46	.....	0.62	T.	7	11	1	16	n.	Wm. Harrison.
Marfa	Presidio	.....	2	.....	.....	.....	.....	.....	.....	.....	0.75	.....	0.75	0.0	1	.....	.....	.....	.....	R. K. Colquitt.
Marshall	Harrison	375	1	46.0	.....	73	15	9	18	37	4.22	.....	2.15	4.5	10	3	15	10	se.	Lee Scott.
Mexia	Limestone	537	6	42.2	.....	74	22	10	18	48	4.03	.....	1.85	2.4	7	3	6	19	s.	Miss Josephine Newman.
Midland	Midland	.....	3	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	23	3	2	sw.	H. J. Elder.
Mont Belvieu‖	Chambers	65	.....	.....	.....	.....	.....	.....	.....	.....	2.99	.....	1.91	0.1	6	10	7	11	n.	A. R. Shearer.
Mt. Blanco	Crosby	2,750	22	40.0	− 0.9	75	15	3	17	51	T.	− 0.88	T.	0.0	0	13	6	9	s.	H. C. Smith.
Nacogdoches	Nacogdoches	271	11	47.8	− 2.8	72	15	13	18	39	9.76	+ 5.90	3.80	1.0	5	10	0	18	n.	Miss Mary Hofmann.
New Braunfels	Comal	720	21	50.4	− 1.8	77	15	19	18	38	1.03	− 0.64	0.40	0.0	4	12	10	6	n.	J. Giesecke.
Palestine	Anderson	510	28	45.6	− 5.3	73	15	12	18	43	3.18	− 0.21	1.39	2.2	9	8	11	9	s.	U. S. Weather Bureau.
Panter	Hood	1,000	20	.....	.....	.....	.....	.....	.....	.....	1.71	− 0.09	1.59	0.2	3	.....	.....	.....	.....	E. H. Snider.
Pearsall	Frio	629	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0.0	0	.....	.....	.....	.....	H. E. Walker.
Pierce	Wharton	102	4	48.3	.....	74	22	15	18	34	2.09	.....	0.81	0.0	5	4	11	13	.....	R. B. Pointer.
Plainview	Hale	3,370	2	39.7	.....	75	14	0	17	52	T.	.....	T.	T.	0	16	7	5	n.	J. F. Sander.
Port Lavaca	Calhoun	20	9	53.9	.....	81	21	24	18	38	1.89	.....	0.82	0.0	5	8	13	7	n.	J. H. Bickford.
Ricardo	Nueces	57	1	59.6	.....	89	2	22	18	41	0.57	.....	0.22	0.0	6	15	7	6	se.	Lindsay Waters.
Riverside	Walker	169	6	.....	.....	.....	.....	.....	.....	.....	3.94	.....	2.00	0.0	3	9	1	18	n.	Mrs. C. W. Higdon.
Robert Lee	Coke	1,850	2	43.4	.....	82	15	12	17	47	0.00	.....	0.00	0.0	0	19	5	4	s.	H. D. Pearce.
Rockland	Tyler	136	6	.....	.....	.....	.....	.....	.....	.....	2.89	.....	1.37	0.0	4	10	0	18	n.	D. W. Bellamy.
Rossville	Atascosa	558	3	54.7	.....	80	15†	20	18	45	0.48	.....	0.28	0.0	4	12	10	6	ne.	W. F. M. Ross.
Runge	Karnes	308	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Reiffert & Frobese.
Sabinal	Uvalde	964	6	54.3	.....	82	21	18	18	42	0.19	.....	0.10	0.0	2	15	3	10	e.	Jas. Johnson.
San Angelo	Tom Green	1,847	2	47.9	.....	81	15	13	17	43	0.15	.....	0.15	0.0	1	19	7	2	s.	Sam Crowther.
San Antonio	Bexar	701	25	51.6	− 2.8	80	21	19	18	37	0.78	− 1.00	0.36	0.1	8	11	10	7	n.	U. S. Weather Bureau.
San Augustine	San Augustine	360	1	48.4	.....	72	15	15	18	37	5.22	.....	1.56	2.4	6	10	5	13	.....	F. A. Wilson.
San Juanito‖	Hidalgo	.....	1	59.2	.....	92	2	23	18	49	0.23	.....	0.08	0.0	4	8	7	13	n.	J. B. McAllen.
San Marcos	Hays	588	17	48.6	− 1.8	76	15	20	18	49	0.93	− 0.75	0.50	0.0	2	11	0	17	n.	Miss L. C. Ford.
San Saba	San Saba	1,712	6	46.4	.....	78	22	11	18	46	1.35	.....	0.62	T.	8	16	6	6	n.	Jas. Burns.
Santa Gertrudes	Nueces	.....	8	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	J. B. Wright, jr.
Seymour	Baylor	1,180	4	41.7	.....	78	15†	9	18	47	T.	.....	T.	T.	0	17	5	6	n.	F. M. Deaver.
Somerville	Burleson	251	1	54.0	.....	82	2	18	18	53	0.11	.....	0.08	T.	2	3	0	25	n.	W. A. Dolan.
Sonora	Sutton	2,200	7	48.1	.....	80	2	10	5	51	T.	.....	T.	0.0	0	6	20	2	s.	Mike Murphy.
Sugarland	Fort Bend	79	12	51.7	− 1.6	75	15†	19	18	43	2.29	− 0.33	1.37	T.	6	9	9	10	s.	O. M. Bakke.
Taylor	Williamson	583	9	47.2	− 4.1	76	22	16	18	44	2.57	− 0.01	1.80	0.4	7	12	9	7	n.	U. S. Weather Bureau.
Temple	Bell	630	16	46.4	− 2.3	80	29	14	18	50	1.94	− 0.01	0.66	1.8	7	8	14	6	n.	H. D. Patterson.
Tilden	McMullen	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. Kuykendall.
Tivoli	Refugio	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.12	.....	0.75	0.0	2	.....	.....	.....	.....	W. H. Gisler.
Uvalde	Uvalde	937	2	55.4	.....	85	21†	15	18	42	0.49	.....	0.41	0.0	3	6	21	1	se.	F. M. Getzendaner.
Valley Junction	Robertson	289	5	.....	.....	.....	.....	.....	.....	.....	1.14	.....	0.44	0.0	3	9	4	15	n.	T. M. Williams.
Victoria	Victoria	187	12	53.6[a]	− 0.4	80[a]	22	21	18	35[a]	1.49	− 1.04	0.95	0.0	3	8	1	19	n.	C. C. Zirjacks.
Waco	McLennan	424	21	43.2	− 6.8	73	2	10	17	44	3.14	+ 0.84	1.30	3.0	5	10	1	17	n.	E. H. Hall.
Waxahachie	Ellis	556	14	41.4	− 4.6	78	22	− 1	18	53	2.94	+ 1.03	1.46	5.5	5	13	2	13	n.	C. D. Longserre.
Weatherford	Parker	884	21	46.4	+ 1.1	78	15	18	13	51	0.86	− 0.70	0.72	0.0	2	16	2	10	s.	Miss J. Stickfort.
Wharton	Wharton	105	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. F. M. Hughs.
Wills Point	Van Zandt	524	5	43.7	.....	71	22	4	18	41	2.90	.....	0.97	2.5	6	12	3	13	n.	W. W. Gibbard.
Zapata	Zapata	300	1	62.4	.....	98	15	22	18	61	T.	.....	T.	0.0	0	17	5	6	se.	F. H. Earnest.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
‖ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 8, Texas and Rio Grande Valley.*

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Colorado.																																	
Blanca	Rio Grande		T.	.01					.02								.03				T.			T.		T.			T.				0.06
Cumbres	do		.18	.07					.51	.03						.10	.28		.12	.46	.12	.75	T.	.36		.31			T.				3.29
Garnett	do		.09						T.							.21			.03														0.33
Hermit	do		.48						.10							.06	T.		T.	T.	T.	.07		.15		.05			T.				0.91
La Veta Pass	do		.41						.05								.85									.08							1.39
Manassa	do		T.	.05					T.							T.	.10																0.15
Platora	do		.13	.07					.03							.29	.18	T.		.05	.12	.18	T.	.15		.22	T.		.04				1.46
Saguache	do		.18	.03					.01							*	.07		T.			T.				T.							0.29
San Luis	do		T.	T.					T.								.29			T.									T.				0.29
Wagon Wheel Gap	do		.10														.05		.15					.10					.10				0.50
New Mexico.																																	
Agricultural College	Rio Grande							.02																									0.02
Alamogordo (near)	do																																0.00
Alamogordo	do																																0.00
Albuquerque	do	.21	T.														.08				.01	.01											0.31
Ancho	do																																0.00
Artesia	Pecos			T.																													T.
Aspen Grove Ranch	Rio Grande		.58						.04								.40			.48		.55				.15							2.20
Bateman's Ranch	do		.36						T.							.26				.06	.10	.30		T.		T.							1.08
Bluewater	do		.04														.24				.06					T.	T.						0.34
Bluewater Reservoir	do																																
Boaz	Pecos			.02																													0.02
Capitan	do																																
Carlsbad	do																																0.00
Carrizozo	Rio Grande		T.																														T.
Chama	do		1.05	.21					.28							T.	.36			.30	T.	.84				T.							3.04
Cloudcroft	Pecos																																
Corona	do		1.10	.50												T.										.02							1.62
Coyote	Rio Grande		.32														T.																0.32
Cundiyo	do		.20	.06													.22			16		.04	.01										0.69
Demonstration Farm	Pecos							*	.17												.08												0.25
Duran	do		.47														T.																0.47
Edison Mine	Rio Grande																																
Elida	Pecos		.01																														0.01
Elk (near)	do	T.	T.	T.													T.									T.	T.						T.
Escondido	Rio Grande																																0.00
Espanola	do		.32																			.40	.04										0.76
Estancia	do		.87																		T.												0.87
Fort Stanton	Pecos		.22	.10													T.				T.						.05						0.37
Fort Sumner	do		T.					T.																									T.
Gallinas	do		.30	.35													T.																0.65
Gallinas Pltg. Station	do		.45	.04													.20			T.				T.			.07		T.				0.76
Harvey's Upper Ranch	do																																
Hillsboro	Rio Grande	.01	T.																														0.01
Hodges	do		*	.23					T.							*	.42			.21													0.86
Hondo Reservoir	Pecos		T.	.03																													0.03
Hope	do																																
Hopewell	Rio Grande		.16	.09					.04							T.	.23	.06	T.	.13	.07	.30		T.		T.	T.						1.08
James Springs	do																																
Laguna	do		.09														.40				T.												0.49
Lagunita	Pecos		.12														.03										T.						0.15
Lake Valley	Rio Grande		T.														T.				T.												T.
Las Vegas	Pecos		.13	.10													.07				T.	T.											0.30
Liston	do		.02																														0.02
Los Lunas (near)	Rio Grande																.12																0.12
Los Tanos	Pecos																.04																0.04
Magdalena	Rio Grande		T.														.09				T.					T.							0.09
Malaga	Pecos																																0.00
Mineral Hill	do		*	.42													.40				T.						T.						0.82
Monterey	Rio Grande																																0.00
Monument	Pecos																																
Mountainair	Rio Grande		1.06														.18				T.												1.24
Newman	do						10																										0.10
Noria	do					T.	.03																										0.03
Orange	do																																
Orogrande	do	T.					T.																										T.
Oscura	do		.01																		T.												0.01
Otis	Pecos	T.																															T.
Otto	Rio Grande		.07	.02													T.					.12											0.21
Pastura	Pecos		.15														.10				.25												0.50
Picacho (near)	do																																
Red River Canyon	Rio Grande		.40						.14							.65	.12				.12	.28											1.71
Rincon	do		T.																														T.
Rio Grande Dam	do		T.														T.																T.
Rosedale	do		.04														.02				.01					T.	.02						0.09
Roswell	Pecos		.11																														0.11
San Marcial	Rio Grande																																0.00
San Rafael	do																.24				.18												0.42
Santa Fe	do		.02	.02												T.	T.			T.	.04												0.08
Santa Fe Canyon	do																																0.00
Santa Rosa	Pecos		T.														T.																T.
Socorro	Rio Grande																T.																T.
Stanley	do		.06														T.				T.	.18				T.	T.						0.24
Strauss	do	T.					.06																										0.06
Swastika Ranch	do		.60	.10												T.	.73				.06	.05											1.52
Taft	Pecos																																0.00
Taos	Rio Grande		.08													.08	.17			.60	.22					T.							1.15
Taos Canyon	do		.04	.09					.04							T.	.20	T.		T.	.39	.40		T.			T.							1.16
Tecolote	do		.36	.38													.04				.06												0.84
Three Rivers	do																				T.												T.
Torrance	Pecos		.81														.08																0.89
Tres Piedras	Rio Grande		.42						T.							.80													T.				1.22
Truchas	do		.64														.16			T.		T.											0.80
Tularosa	do																																0.00
Vaughn	Pecos			.18																													0.18
Winsors	do		.31													.03	.25			.02	.21	.28											1.10
Texas.																																	
Abilene	Brazos	.07					.13			T.	T.						.01																0.21
Albany	do	.20					T.			T.							.30																0.50
Alvin‖	Coast		T.		.21							.46						.32	T.			.08					2.04						3.11
Anahuac	do			.12				.38				.52						.30									1.53						2.85
Austin	Colorado	.10	1.55				.10	.47		.03							.04	.02			T.						.26						2.47
Ballinger‖	do							T.		T.																							T.
Barstow	Pecos						T.																				T.						T.

TABLE 2.—*Daily precipitation for February, 1910. District No. 8*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Texas—Cont'd.																															
Bay City	Colorado							.45			T.							.33										1.10					1.88
Beaumont	Neches			.38				T.	.14			.33						.17	T.									3.96	T.				4.98
Beeville	Coast		.05					.67		T.		.05						T.			T.				T.			T.					0.77
Big Springs	Colorado	T.	T.				.03																										0.03
Blanco	Guadalupe		.50					.37				.02						.05										.15					1.09
Boerne	San Antonio	.40					.15										T.			.05							.08						0.68
Booth	Brazos		.20					.30				.35						.37				.06						1.10					2.38
Bowie	Trinity	*	.39														*	.16									.02						0.57
Brazoria	Brazos	*						*	.45		.05	.16					.04	.05			.07			.01	.01			2.02					2.86
Brazos	do		.55									T.						.12															0.67
Brenham	do		.44	.13				.04				.14						.12	T.		T.	T.			T.			.68					1.55
Bridgeport	Trinity																																
Brighton	Coast						1.52	.05			.08							.01															1.66
Brownsville	Rio Grande			T.			.11	.11		T.	T.	.02						.01		T.	T.												0.25
Brownwood	Colorado						.03			T.	T.						T.																0.03
Cameron	Brazos		1.62	.06				.02				.15						.30			.02							.37	T.				2.54
Carmona	Neches		.35	.95			T.	.08			T.	.25					.05	.25			.10	T.	T.	T.			.05	1.10	T.				3.18
Claytonville	Brazos																																0.00
Coleman	Colorado	T.					T.				T.																						T.
College Station	Brazos		.78	.88				.03			.01	.02					.06	.09			.23			.06			.12	.19					2.47
Colorado	Colorado	.10				.10																											0.20
Columbia	Brazos			.02			T.	.44			.33	.08																2.90					3.77
Columbus	Colorado		.72	.16				.04				T.						.38				.02			T.			.44					1.76
Comstock	Rio Grande	T.					T.																										T.
Corpus Christi	Coast	T.	T.	T.			.60			T.	.04						T.	.01			T.			.01			T.						0.66
Corsicana	Trinity		1.05	.06								.52					.09	.30	T.								.72						2.74
Crockett	do		3.99	.24							T.	.25					.04	.10	.20		T.	.54					.24	.46					6.06
Cuero	Guadalupe		1.00					.93			.24							.02										.40					2.59
Dallas	Trinity		1.52									.05				.02		.35	T.						.03		.08	.40					2.45
Danevang	Coast							.45																									0.45
Decatur	Trinity																.02	.10															0.12
Del Rio	Rio Grande	.02					T.																										0.02
Devine	Nueces	T.	.02			T.	T.	.10	T.	T.	T.						T.																0.12
Dialville	Neches		2.25							.04	.12						T.	.20			.10			.10			1.15					3.96
Dilley	Nueces																																
Dublin	Brazos	.12									T.						.10										.20						0.42
Duval	Colorado	.40	.71				.39				.08						.12	.18			T.						.32						2.20
Eagle Pass	Rio Grande	.03																															0.03
Edna	Lavaca					.56	.10					.10	.20									.20					.70						1.86
El Paso	Rio Grande	T.					.10																										0.10
Encinal	Nueces							.08																									0.08
Fairland	Colorado	.63					.28				.18						T.	.07									.09						1.25
Falfurrias	Coast	.13		T.			T.			T.	T.																						0.13
Flatonia	Guadalupe	.21	.59				.28	.20	T.	.02	.30	.01					.08	.05				T.		T.			.23						1.97
Flint	Neches		1.22	T.							.46						.10	.40				.02	T	.12			1.26	.24					3.82
Fort Clark	Rio Grande																																0.00
Fort McIntosh	do	.03																															0.03
Fort Stockton	Pecos						.22																				T.						0.22
Fort Worth	Trinity	.59	.28				T.				.06	T.					.04	.10			T.			T.	T.		.07						1.14
Fredricksburg	Colorado	.66	T.				.47				.05						T.	.05									T.						1.23
Gainesville	Trinity		.83														.02	.20									.50						1.55
Galveston	Const		T.				.02	.14			.35	T.					.13	.02					T.	.01				3.74					4.41
Gatesville	Brazos	.10	.40								.30							.20									.10						1.10
Georgetown	do		.70	T.				.14	.02			.08				T.	.08										T.	.30					1.32
Gonzales	Guadalupe		1.03					.60		.08		.10						.17										.34					2.32
Graham	Brazos	T.	.28								T.						.10	.20															0.58
Grand Saline	Sabine										.10						.20	.20			T.			.15			1.63	.23					2.51
Grapevine	Trinity	.96						T.		.02							*	.20						T.			.20						1.38
Greenville	Sabine		.85															.10										.50					1.45
Hallettsville	Lavaca	T.	1.12				.21	.20			T.	.31					T.										.37						2.21
Harper	Colorado	.23					.21			.06								.06							.01								0.57
Haskell	Brazos						T.										T.																T.
Hebbronville	Coast																																0.00
Hempstead	Brazos		.44	.10				T.		T.		.30						T.										.75					1.59
Henderson	Neches		1.60								.26							1.00			.12			.11			.65	1.45					5.19
Hewitt	Brazos	.10	1.35								.51						.12	.11			T.			T.			.33						2.52
Hillsboro	do		2.03									.68															.98						3.69
Hondo	Nueces						.22													T.							.06						0.28
Houston	Coast	.06	T.				.07	.18			.25					T.	.27	.02			.03			.02			1.41						2.31
Huntsville	Trinity		.36	.55				T.				.26										.72						2.52					4.41
Jewett	do		1.65	1.60							.25		.25					*	.40		T.							.90					5.05
Junction	Colorado																																0.00
Kaufman	Trinity		1.15								.22						.20	.60									.77						2.94
Keene	Brazos		2.10								.30	.05					.10										.30						2.85
Kerrville	Guadalupe		.72				.06	.18	.05			.02																					1.03
Knickerbocker	Colorado						T.		T.																								T.
Kopperl	Brazos		.62									.42						.20									.40	.20					1.84
Lampasas	do		.81									.16						.16	.33								.45	T.					1.91
La Parra	Coast																																0.00
Laureles Ranch	do					.68					.14																						0.82
Le Min Ranch	Pecos																																
Liberty	Trinity			.22				T.				.50						T.				T.		T.				2.00					2.72
Llano	Colorado	.02					.02				T.																						0.04
Llano Grande	Rio Grande	T.		T.	T.		T.	T.	T.	T.		T.								T.													T.
Long Lake	Trinity		1.10	1.18								.24						.18	T.									1.50					4.20
Longview	Sabine		.95									.55						.26	T.						.09			2.14					3.99
Lufkin	Neches		5.31	2.95													.12	.37			.03	.04		.12			T.	1.66					10.60
Luling	Guadalupe		.36				T.	.75				.08						.10										.20					1.49
McGregor	Brazos																																
Marathon	Rio Grande																																0.00
Marble Falls	Colorado		.62	T.			.06	.20				.26					T.	.22								.02	.08						1.46
Marfa	Rio Grande						.75																										0.75
Marshall	Sabine		.86								.35	.01					.11	.51			.04	.09		.10			.55	1.60					4.22
Mexia	Brazos		1.85	.42								1.02					.03	.24							.03			.44					4.03
Midland	Colorado																																0.00
Mont Belvieu	Coast			.05				.36				.44					.15	.18							T.		T.	1.91	T.				2.99
Mt. Blanco	Brazos						T.																										T.
Nacogdoches	Neches		1.77	1.82				T.				T.					T.	.56	T.			3.80			T.			1.81					9.76
New Braunfels	Guadalupe		.35				.40	T.			.13										T.			.08			1.39						1.03
Palestine	Trinity	.32	1.02						.04		.15	.04					.06	.08															3.18
Panter	Brazos	1.59									.08									.04													1.71
Pearsall	Nueces	T.																								T.							T.
Pierce	Colorado		.25					.49			.31						.23										.81						2.09
Plainview	Brazos		T.				T.										T.																T.

TABLE 2.—*Daily precipitation for February, 1910. District No. 8*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Texas—Cont'd.																															
Port Lavaca	Coast		.25				T.	.56			T.						.22	.04			T.						.82					1.89
Ricardo	do	T.		.05			.11	.22		.15	.03						T.							.01								0.57
Riverside[‖]	Trinity			1.00				T.				T.					T.	T.				.94						2.00				3.94
Robert Lee[‖]	Colorado																																0.00
Rockland[‖]	Neches		1.37	T.								.44						.24	T.								.84					2.89
Roseville	Nueces	.05					.12	.28													.03						T.					0.48
Runge	San Antonio																																
Sabinal	Nueces	.10	.09																														0.19
San Angelo	Colorado						.15																										0.15
San Antonio	San Antonio	.18	.18				.32		.01	T.	T.	T.					.01	.01			T.			.01			.06						0.78
San Augustine	Neches		1.50	1.48							T.	.18					T.	.24				.26	T.	T.			T.	1.56				5.22
San Juanito	Coast	.04		.08			T.			.06	.05																						0.23
San Marcos[‖]	Guadalupe		.43					.50																									0.93
San Saba	Colorado	.23	.62				.05	.05			.06	.01						.06									.27						1.35
Santa Gertrudes[‖]	Coast																																0.00
Seymour	Brazos	T.									T.						T.							T.								T.
Somerville	do		.03															T.								.08						0.11
Sonora	Rio Grande	T.					T.																										T.
Sugarland	Brazos		.08				.21				.33						.22				.08						1.37						2.29
Taylor	do	1.67	.15				.21				.06						.05	.05			T.			T.			.38						2.57
Temple[‖]	Brazos	.44	.04				.03	T.			.59	.08						.10									.66						1.94
Tilden	Nueces																																
Tivoli	Guadalupe						.75																				.37						1.12
Uvalde	Nueces	.41	.06				.02	T.		T.																	T.						0.49
Valley Junction[‖]	Brazos		.30															.40										.44				1.14
Victoria[‖]	Guadalupe							.95			.19																.35						1.49
Waco[‖]	Brazos		1.30									1.10					.22	.30										.22					3.14
Waxahachie[‖]	Trinity		1.46					T.				.30					.18	.60	T.									.40					2.94
Weatherford[‖]	do		.72										T.		.14																		0.86
Wharton[‖]	Colorado																																
Wills Point	Sabine		.95							T.	.17						.18	.28			T.			.35			.97						2.90
Zapata	Rio Grande									T.																							T.

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 8, Texas and Rio Grande Valley.*

Date.	Colorado.				New Mexico.																Texas.							
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountainair.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Springs.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	44	5	46	11	64	43	73	33	57	18	57	22	52	27	66	24	48	21	64	29	66	51	71	48	76	62	68	61
2...	24	12	38	12	59	40	62	33	45	24	46	22	45	30	46	26	39	20	49	25	61	35	65	44	80	68	75	67
3...	27	−10	34	7	43	29	50	27	34	9	26	8	34	13	32	18	27	8	48	10	43	26	46	25	68	50	68	45
4...	30	− 8	41	− 2	53	18	55	16	47	0	30	2	39	14	49	13	38	12	52	12	51	19	55	18	54	42	53	37
5...	33	− 6	40	1	51	27	55	21	50	8	37	5	41	17	53	16	43	13	55	13	61	27	55	19	62	33	52	35
6...	35	− 4	42	3	53	38	59	36	50	24	42	14	47	21	55	26	40	17	54	22	49	36	49	38	62	41	54	48
7...	36	− 2	41	4	63	25	70	32	56	22	55	15	48	23	63	28	43	17	61	27	60	35	66	26	69	55	61	47
8...	35	5	41	12	63	28	69	33	50	20	41	21	44	30	59	23	39	16	52	26	71	33	71	36	78	51	66	54
9...	32	− 1	38	− 5	52	25	60	13	52	9	38	12	39	17	49	14	34	13	50	10	47	25	55	22	66	51	63	47
10...	34	0	37	0	55	27	58	20	44	23	34	19	40	24	55	24	34	16	50	24	48	36	59	34	57	52	56	44
11...	35	1	35	1	56	27	60	21	48	22	40	16	44	18	57	20	37	14	51	18	53	36	66	29	60	43	53	38
12...	41	4	43	6	64	26	69	21	56	20	45	22	55	24	64	21	43	22	57	20	57	29	74	33	70	39	56	38
13...	46	5	48	8	66	30	68	24	65	16	55	24	54	26	63	21	50	23	56	19	65	23	74	35	73	45	58	47
14...	55	10	51	21	52	28	74	21	70	19	60	27	61	33	76	25	55	24	70	34	71	46	78	33	77	55	70	55
15...	42	27	43	30	68	25	77	45	60	45	53	33	55	40	74	42	48	26	64	35	82	39	78	36	77	65	73	63
16...	29	3	34	0	48	23	69	23	52	6	46	5	45	15	44	8	26	0	42	7	39	14	69	16	81	57	73	31
17...	16	−21	19	−18	39	9	37	6	31	− 9	26	− 8	28	2	35	− 1	19	− 3	32	6	31	11	28	8	57	32	42	28
18...	20	−18	27	−16	55	11	62	9	54	7	46	10	41	11	54	7	35	5	50	10	48	15	53	16	52	32	43	26
19...	36	−11	33	2	66	32	72	24	57	13	48	20	50	23	69	17	36	19	58	21	65	31	69	30	63	38	59	37
20...	37	− 1	34	9	62	38	70	45	48	33	46	26	43	29	64	29	40	16	54	29	68	37	70	40	80	60	74	58
21...	42	4	35	11	64	31	75	34	60	22	52	23	54	29	71	24	43	23	56	32	70	27	72	27	87	63	69	58
22...	47	14	45	18	68	26	79	44	64	25	56	25	57	26	73	30	48	23	67	25	77	29	78	41	83	63	66	57
23...	47	23	45	23	70	38	71	25	62	28	56	28	60	35	70	22	48	30	68	17	37	20	58	20	87	63	72	42
24...	49	16	50	20	73	35	74	27	70	23	65	21	58	32	72	24	56	28	70	37	51	15	61	19	63	46	52	32
25...	48	22	44	34	77	39	70	39	61	31	56	16	55	39	81	38	53	35	69	31	61	32	66	36	71	44	62	42
26...	40	22	45	23	63	43	69	43	57	35	52	32	57	40	61	36	45	24	56	34	71	43	68	48	79	63	73	62
27...	45	16	45	19	69	27	70	30	57	17	54	23	55	25	66	29	46	23	63	27	64	28	68	28	74	60	71	55
28...	44	17	46	20	73	29	79	33	63	18	61	25	61	31	76	30	54	24	67	27	79	47	78	38	79	46	66	56
29...	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......
30...	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......
31...	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......
Mns	37.5	4.4	40.0	9.1	60.3	29.2	66.3	28.8	54.3	18.9	47.2	18.1	49.0	24.8	60.6	22.6	41.7	18.2	56.6	22.4	58.8	30.2	64.3	30.1	70.9	50.7	62.4	46.8

Date.	Texas.																											
	Del Rio.		El Paso.		Fort McIntosh.		Fort Stockton.		Fort Worth.		Galveston.		Hallettsville.		Houston.		Lufkin.		Palestine.		Plainview.		San Antonio.		Seymour.		Taylor.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	68	58	64	43	78	59	75	36	70	47	62	57	67	46	67	51	72	37	67	49	70	34	66	57	71	35	66	52
2...	84	53	64	37	92	65	75	40	71	38	66	60	72	62	71	59	64	50	61	45	56	31	78	54	57	36	72	44
3...	54	37	45	28	81	39	57	31	41	30	65	41	62	43	67	38	50	39	45	35	39	17	54	40	44	28	45	35
4...	58	28	49	24	60	49	53	19	51	27	46	38	48	33	47	33	47	34	45	33	55	11	53	34	53	16	48	29
5...	60	23	50	30	68	55	57	20	64	32	51	40	53	29	60	32	57	24	62	30	61	19	60	28	66	21	59	26
6...	60	39	50	35	64	56	52	37	52	37	55	48	48	43	60	44	54	35	52	39	49	24	53	43	49	32	54	42
7...	62	39	61	33	62	55	71	31	59	42	56	47	62	43	61	44	64	42	58	44	63	28	60	41	62	29	59	43
8...	74	38	61	41	62	55	74	36	70	37	59	51	63	45	68	45	70	36	67	44	59	24	64	45	68	34	62	45
9...	62	39	56	29	77	60	68	21	49	32	59	46	58	41	60	43	63	40	54	36	55	31	58	41	48	21	53	35
10...	63	41	54	34	63	54	61	32	40	34	51	37	55	41	54	39	53	33	42	32	54	30	48	38	47	33	43	34
11...	59	33	54	32	64	54	56	25	54	34	48	39	50	37	49	38	52	35	49	32	52	28	53	37	55	35	48	35
12...	70	35	63	30	70	60	68	27	48	31	56	42	58	33	62	37	60	29	56	36	49	18	63	33	46	23	60	32
13...	67	41	67	29	76	66	75	27	55	26	51	42	60	37	61	38	68	33	55	29	64	16	64	35	63	16	59	29
14...	75	49	73	37	84	60	82	35	72	45	63	51	66	43	69	45	67	35	67	41	75	31	72	42	75	41	68	40
15...	82	54	70	49	89	61	80	48	77	59	66	58	72	55	73	57	72	57	73	59	68	34	80	58	78	44	74	60
16...	61	26	51	21	86	51	70	28	64	14	64	36	68	34	72	28	68	34	65	22	48	10	64	27	44	15	65	21
17...	43	20	39	12	59	26	35	8	27	11	36	25	35	23	35	22	34	17	25	15	31	0	42	22	32	12	31	18
18...	47	20	54	17	55	28	63	19	34	13	42	24	43	22	47	21	43	15	38	12	53	5	46	19	47	9	41	16
19...	62	27	66	31	72	30	74	26	52	26	53	40	56	32	56	29	60	25	56	26	54	17	63	26	63	23	61	27
20...	82	48	61	42	88	52	72	34	73	41	64	53	74	53	72	49	70	45	66	48	58	31	77	55	56	41	75	52
21...	82	48	65	43	86	50	80	38	61	33	72	58	69	54	75	55	66	51	58	40	66	20	80	51	58	23	67	40
22...	82	48	68	43	87	57	78	41	75	36	59	54	74	43	73	51	74	37	73	35	69	25	76	44	68	28	70	38
23...	77	49	70	43	85	60	75	25	36	21	65	43	76	54	65	37	72	42	55	26	43	14	66	38	34	17	52	25
24...	65	33	74	38	81	40	70	28	46	15	46	37	56	29	47	32	45	30	39	25	68	16	58	28	45	10	46	24
25...	64	42	76	46	67	45	84	42	55	30	55	41	59	32	54	32	62	30	58	30	56	25	63	34	59	24	58	28
26...	85	58	63	45	84	60	71	48	61	45	63	55	68	54	70	53	67	50	60	50	58	35	72	53	68	42	61	52
27...	76	44	69	36	81	55	77	28	62	35	62	52	64	49	63	46	64	46	56	41	60	22	72	46	60	22	63	43
28...	78	48	70	44	86	55	80	41	65	41	59	51	65	39	65	45	67	46	64	36	72	24	73	42	78	33	71	39
29...	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......
30...	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......
31...	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......
Mns	67.9	39.9	61.0	34.7	75.2	52.0	69.0	31.1	56.6	32.6	56.9	45.2	60.8	41.0	61.5	40.8	60.5	36.7	55.9	35.4	57.3	22.1	63.5	39.7	56.9	26.5	58.5	35.9

Climatological Data for February, 1910.

DISTRICT No. 9, COLORADO VALLEY,

FREDERICK H. BRANDENBURG, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

The month, as a whole, was dry and cold, with an excess of sunshine. The changes in temperature were frequent and strongly marked, while in the mountain districts there were many high winds. The deficiency in precipitation, although general, was greatest in the south, where the winter has been decidedly dry.

TEMPERATURE.

The mean of all stations reporting was 35.0°, or 1.5° below the normal. A deficiency was general, except in south-central Arizona. On account of the deficient cloudiness, nocturnal radiation was rapid; the resulting drainage of cold air into the valleys caused remarkable local deficiencies in temperature, the mean at Gunnison, Colo., being 10.1° below the normal. Very decided deficiencies also occurred in the Green River Basin in northern Utah. By subdivisions the means and departures were: Western Wyoming, 10.3°, −1.7°; western Colorado, 20.3°, −2.9°; eastern Utah, 27.3°, −1.6°; western New Mexico, 36.5°, −1.4°; Arizona, 47.9°, −0.8°. The highest local monthly mean was 60.0° at Mohawk Summit, Ariz., and the lowest, 4.0°, at Eden, Wyo., and at Gunnison, Colo. The first day of the month was warm, but from the 2d to 10th the temperatures were below the normal; the minimum for the month, −37°, occurred at Eden, Wyo., on the 4th. The temperature rose steadily from the 10th to the 14th, when the highest readings of the month were recorded at many stations. From the 14th to the 17th the temperature fell rapidly; in the central and southern parts of the district the 17th was the coldest day of the month. The cold wave of the 17th was noteworthy for the absence of the usual inversion in temperature; the minimum at Corona, Colo., the highest station reporting, was as low as any observed on that day. After the 17th the temperature rose gradually, reaching the normal on the 22d, and remaining above the normal until the close of the month. The highest local maximum, 90°, occurred at Fort Mohave, Ariz., on the 28th.

PRECIPITATION.

The precipitation was deficient in almost all parts of the district, the Gunnison Valley alone receiving nearly the usual snowfall for February. In southern Arizona the month was practically rainless; the average for the Gila Valley was more than an inch below the normal. The mean of all the stations reporting was 0.62 inch, or 0.84 inch less than the average for February. By watersheds the means and departures were: Green, 1.31 inch, −0.20 inch; Grand, 1.26 inch, −0.44 inch; San Juan, 1.28 inch, −0.36 inch; Little Colorado, 0.36 inch, −0.98 inch; Gila, 0.08 inch, −1.17 inch; lower Colorado, 0.24 inch, −0.69 inch. The greatest monthly amount was 6.70 inches at Strawberry Valley, Utah. About 30 stations in the extreme south reported no precipitation. At the close of the month 117 stations in Colorado, having an average elevation of 8,600 feet, showed a mean depth of 34.6 inches of snow. Although the depth is less than the average, the condition of the snow is favorable to gradual melting. The number of days with precipitation ranged from none at many of the southern stations to 17 at Gladstone in the San Juan Mountains. Precipitation was most widely distributed on the 2d, although the amounts were small; during the remainder of the month it was confined largely to the northern half of the district. From the 4th to 7th there was practically no precipitation; on the 8th and 14-15th light snow was general in Colorado and the adjacent region. The heaviest snowfall occurred from the 18th to the close of the month; at the higher stations snow fell almost every day during this interval.

RIVERS.

The warm weather at the close of the month caused a moderate rise in the Green and the Grand. Construction work was interrupted at the Shoshone Dam and elsewhere, but little damage was reported.

MISCELLANEOUS.

The sunshine was about 10 per cent above the normal. Grand Junction reported 75; Durango, 72; Flagstaff, 86; Phoenix, 91, and Yuma, 92 per cent of the possible.

The wind movement was about normal at the lower levels and above the normal in the mountains. There was much drifting of the snow, with temporary blockades on some of the passes. The gale of the 14th was especially strong.

SNOWFALL IN THE MOUNTAINS OF COLORADO.

In general, the snowfall during February was less than the average, and much less than for the corresponding month last year. There were a number of sharp changes in temperature, the alternate warm and cold spells being very favorable for settling and solidifying the old snow.

As compared with the usual depth at the close of February, a deficiency is noted for the tributaries of the Grand rising on the slopes of the Continental Divide, and about the average for the more westerly part of the drainage area. More uniformity is noted on the watershed of the Gunnison, the majority of the reports showing the average, or somewhat more than the average. For the Yampa and White a deficiency has been the rule. For the San Miguel, Dolores, and the San Juan the depths are less than usual; in the main the snow fell early in the season and is well settled.

TABLE 1.—*Climatological data for February, 1910. District No. 9, Colorado Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Wyoming.																				
Daniel	Uinta	6,740	11	8.6	− 3.5	40	14†	−35	3	52	1.00	− 0.28	0.30	10.0	5	8	19	1	nw.	J. M. Van Dervort.
Dixon	Carbon																			Chas. Spillman.
Eden	Sweetwater	6,577	2	4.0		37	14	−37	4	48	0.15		0.10	1.5	2	10	7	11	n.	Eden Valley L. and I. Co.
Green River	....do	6,083	5	17.7	− 3.2	50	14	−20	4	35	0.30	− 0.37	0.13		5	13	7	8	w.	Geo. H. Maxon.
Kendall	Fremont	7,630																		Art. Doyle.
Pinedale	....do	7,167	4	10.8		41	28	−27	3†	42	0.46		0.20	6.0	4	14	12	2	nw.	U. S. Forest Service.
Rambler	Carbon	9,232																		J. C. Fothergill.
Colorado.																				
Ashcroft	Pitkin	9,483	8	14.4		41	1	−24	17	43	1.76		0.35	26.0	12					Dan McArthur.
Breckenridge	Summit	9,536	20	12.8	− 3.7	41	24	−23	4†	54	1.53	− 1.21	0.70	19.1	8	3	11	14	nw.	Mrs. J. G. Thompson.
Cascade§	San Juan	8,900	4								1.85		0.52	31.0	11	16	2	10	e.	San Juan P. and W. Co.
Chromo	Archuleta	7,500	4																	Lawrence Nolan.
Cochetopa	Saguache	9,088									0.59		0.24	10.5	9	6	11	11	w.	Bessie McDonough.
Collbran	Mesa	6,000	17	25.6		50	14	− 7	17	33	0.69	− 0.62	0.35	13.0	6	11	9	8	sw.	A. A. Wood.
Columbine	Routt	8,766									3.47		0.63	37.6	12	11	12	5	sw.	Mrs. M. A. Caron.
Columbine Ranch	Delta	6,925									1.20		0.64	15.6	5	12	4	12	s.	Geo. W. Wade.
Corona	Grand	11,660	3	5.1		30	14	−30	17†	35	4.42		0.76	50.4	16					U. S. Weather Bureau.
Crawford (near)	Montrose	6,600		24.8		50	24	− 8	17	34	0.85		0.27	18.0	10	15	9	4		C. W. Roe.
Crested Butte	Gunnison	8,867		13.1[i]		38[i]	15†	−29[i]	17	50[i]	2.85		0.57	39.0	10	12	5	11		Charles L. Ross.
De Beque	Mesa	4,935		28.0		60	15	1	6	46				3.0	4	16	0	12		C. M. Paine.
Delta	Delta	4,965	19	32.1	+ 1.1	63	15	12	6†	39	0.02	− 0.55	0.02	0.2	1	19	3	6		E. M. Getts.
Dillon	Summit	8,800	1								1.35		0.40	15.0	8	3	14	11	n.	Harry T. Hamilton.
Dolores	Montezuma	6,500	1	29.6		57	22†	5	22	52	0.46		0.18	7.9	3	17	6	5	nw.	Geo. R. Simmons, jr.
Durango	La Plata	6,534	17	27.1	− 2.8	53	14	− 2	17	36	0.98	− 0.52	0.39	10.4	7	10	12	6	nw.	U. S. Weather Bureau.
Eagle	Eagle	6,598	5	21.3		48	14	−16	17	47	0.59		0.20	9.0	5	14	9	5	w.	J. M. Witteman.
Eureka§	San Juan	10,000	3								2.17		0.58	23.0	12					San Juan P. & W. Co.
Fraser	Grand			10.6		43	15	−30	4†	64	0.60		0.20	7.4	5	11	9	8	n.	L. D. C. Gaskill.
Fruita	Mesa	4,510	11	27.4	− 4.4	52	28	2	6	33	0.35	− 0.60	0.19	3.9	4	13	10	5		J. B. Willsea.
Gladstone §	San Juan	10,400	3								4.80		0.88	32.7	17	7	12	9	ne.	San Juan P. & W. Co.
Glenwood Springs (near)	Garfield	5,823	12	25.5	− 1.3	49	24	− 3	17	44	0.67	− 0.17	0.22	13.0	5	11	10	7	nw.	E. A. O'Neil.
Grand Junction	Mesa	4,608	19	31.0	− 0.5	57	14	11	17	31	0.14	− 0.49	0.10	1.2	4	12	11	5	nw.	U. S. Weather Bureau.
Grandlake	Grand	8,153	2								1.78		0.64	16.2	4	19	1	8		Mrs. Belle Kauffman.
Grand Valley	Garfield	5,089	18	28.0	− 1.9	53	28	− 2	6	44	0.53	− 0.47	0.24	7.5	8	10	11	7		David Evans.
Gunnison	Gunnison	7,670	17	4.0	−10.1	39	12	−34	6	44	0.96	+ 0.21	0.23	15.8	9	4	17	7	sw.	Clarence Adams.
Hayden	Routt	6,337	1																	C. W. Harkness.
Hesperus	La Plata	8,870	11																	John S. Spear.
Horsefly	Montrose	8,700																		L. J. Finch.
Ironton	Ouray	10,000									2.12		0.32	30.9	13	10	7	11	sw.	P. H. Foley.
Kremmling (near)	Grand	7,337	2	16.2		47	14	−23	6	46	1.02		0.30	12.5	12	8	7	13		H. A. Howe.
Lake City	Hinsdale	8,686	5	16.2		50	14	−19	17	44	1.11		0.27	15.1	11	11	8	9	n.	J. F. Maurer.
Lay	Routt	6,190	16	16.6	− 3.3	49	14	−25	5	54	0.75	− 0.47	0.20	11.0	7	12	4	12	sw.	A. G. Wallihan.
Leal	Grand	8,750									0.83		0.30	14.5	5	9	9	10	nw.	L. J. Wade.
Lujane	Montrose	6,620	4	26.8		53	14	− 8	17	44	0.39		0.13	11.0	7	11	14	3	se.	U. S. Reclamation Service.
Mancos	Montezuma	6,960	11	26.6	− 3.9	55	14	− 5	17	43	1.42	− 0.12	0.77	18.5	6	12	12	4	nw.	B. M. Krumpanitsky.
Marble	Gunnison	7,951	1	20.8		50	24	−25	17	51	1.86		0.36	47.0	18	10	9	9	ne.	Homer Harrington.
Marshall Pass	Saguache	10,846	7								2.86		0.41	65.0	13	10	7	11	w.	William D. Lillard.
Meeker	Rio Blanco	6,182	18	22.2	− 1.8	52	14	−14	4	48	0.78	− 0.37	0.25	11.5	9	10	11	7	sw.	T. Baker.
Montrose (near)	Montrose	5,811	21	28.8	− 2.5	54	14	− 2	17	35	0.12	− 0.60	0.12	T.	1	12	10	6		R. Butterfield.
Nast	Pitkin	7,953		14.0		40	13†	−30	17	43	1.81		0.45	22.8	8	10	9	9	w	Arthur Hanthorn.
Pagoda	Routt	6,500	19	23.4	+ 0.9	65	14	−15	17	49	2.35	+ 0.43	0.80	30.0	7	16	3	9		Shaw Brothers.
Pagosa Springs	Archuleta	7,108	3	17.0		49	24	−30	17	65	0.82		0.27	10.5	7	12	7	9		E. T. Walker.
Paonia	Delta	5,694		28.8		52	24	− 2	17	34	1.64	+ 0.36	0.66	16.3	6	7	17	4	sw.	J. M. Underwood.
Parshall	Grand		1								0.20		0.10	5.0	2					F. A. Field.
Pitkin	Gunnison	9,500	1								0.77		0.12	17.8	9	14	7	7		Mrs. Maggie Cammann.
Rangely	Rio Blanco	5,050	11	14.2	− 6.2	49	14	−22	4	54	0.89	+ 0.09	0.32	13.6	5	9	5	14	sw.	Mrs. C. P. Hill.
Redcliff	Eagle	8,695	15																	Dorothea Greiner.
Rico	Dolores	8,824	8								1.65		0.50	30.0	9	12	8	8	sw.	Clinton B. Smith.
River Portal	Montrose	6,570	4	23.0		53	28	−10	16	33	0.87		0.24	8.1	8	17	4	7		U. S. Reclamation Service.
Sapinero	Gunnison	8,125	8	14.3		42	14	−16	17	31	2.77		0.39	40.9	16	10	5	13	w.	W. F. Irving.
Shoshone	Garfield	6,110									2.18		0.71	32.8	13	6	10	12		Central Colo. Power Co.
Silt	....do	5,441	13																	W. S. Park.
Silverton (1)	San Juan	9,285	6	16.6		49	1†	−24	17	61	2.46		0.40	25.5	13	13	0	15	sw.	A. P. Root, jr.
Silverton (near) §	....do	9,400	3	14.5		45	13	−23	17	48	1.87		0.30	24.0	10	7	10	11	sw.	San Juan P. & W. Co.
Spruce Lodge	Grand	9,600	2								2.88		0.39	39.0	15					H. J. Wills.
Steamboat Springs	Routt	6,683	7	16.2		52	14	−29	4	54	3.53		1.05	33.5	6	21	2	5		M. E. Houston.
Tacoma §	La Plata	7,300	3	22.8		47	14	− 6	17	38	0.84		0.39	12.0	6	15	4	9		San Juan P. & W. Co.
Terminal Dam §	....do	8,300	3								1.25		0.70	16.0	6	17	7	4	n.	Do.
Uncompahgre Plateau	Montrose	8,400									1.05		0.40	21.0	7	7	13	8	sw.	Martin Esser.
Whitepine	Gunnison	9,500	10	11.4		41	14	−28	16	43	1.87		0.50	32.0	5	13	4	11	s.	C. E. Macy.
Yampa	Routt	8,000	1								0.70		0.13	9.2	9	11	9	8	s.	Percy A. Hughes.
Utah.																				
Baker	San Juan	7,560	1								0.55		0.46	7.3	3	12	9	7	s.	Maude A. Palmer.
Basin	Grand	9,500	1								1.74		0.72	21.0	6	7	18	3	w.	E. H. Wolf.
Castle Dale	Emery	5,500	11	14.3[d]		50[d]	28	−20[d]	9	49[d]	0.70		0.40		2	9[d]	15[d]	0[d]		James Jeffs.
Emery	....do	6,260	10	26.3		53	26	− 4	4	39	0.20		0.20	2.0	1	0	7	21	sw.	H. C. Wickman.
Escalante	Garfield	5,700	10	29.0		64	28	− 4	4	41	1.00		0.75		2	19	0	9		Geo. H. Barney.
Fort Duchesne	Uinta	5,000	22	11.9	− 7.4	50	28	−21	6	42	0.44	+ 0.01	0.15	4.4	4	18	5	5	nw.	B. F. Mudd.
Grayson	San Juan	5,750	6	29.6		55	14†	2	17	36	0.70		0.50	6.0	2	21	2	5	s.	Joseph A. Lyman.
Green River	Emery	4,089	13	32.8		62	25	7	6	40	T.		T.	0.0	0	19	7	2		B. F. Miller.
Hanksville	Wayne																			F. G. Weber.
Hite	Garfield	3,000	11	39.0		66	14	17	17	34	0.21		0.21	T.	1	13	13	2	nw.	John P. Hite.
La Sal	San Juan	7,000	10	25.8		48	23†	− 1	17	36	0.58		0.36	6.0	3	11	9	8		Gertrude W. Carpenter.
Loa	Wayne	7,000	18	24.0	− 0.1	50	13†	−15	4		0.20	− 0.34	0.20		1					Michael Hansen.
Mill Canyon	Washington	8,400									0.50		0.50	5.0	1					J. A. Gardner.
Moab	Grand	4,000	21	40.0	+ 3.8	64	28	12	17	34	0.03	− 0.67	0.03	0.3	1	13	9	6		Henry Crouse.
Monticello	San Juan		2																	D. B. Perkins.
Orderville	Kane																			F. A. Porter.
Price	Carbon	5,557																		C. A. Guiwits.
Ranch	Kane	6,700	9	24.3		58	25	− 8	17	41	0.81		0.76		2	20	7	1	nw.	J. W. Seaman.
Saint George	Washington	2,880	29	41.0	− 0.8	73	28	13	17	45	0.03	− 0.94	0.03	0.5	1	19	10	2		Joseph T. Atkin.
Scofield	Carbon	7,625	2																	O. E. Jorgensen.
Springdale	Washington		3	44.2		71	13	17	16	40	T.		T.		0	1	12	15	s.	Wm. W. Flanigan.
Strawberry	Wasatch		4	20.0[b]		43	13†	− 1[e]	20	27[e]	6.70		2.40	67.0	10	3	12	13		U. S. Reclamation Service.
Sunnyside	Carbon	5,280	2								0.80		0.60	8.0	3					Henry Cullum.
Teasdale	Wayne	7,000	2																	Josiah Shurts.
Theodore	Wasatch	5,507	5	14.2		47	14	−27	4	46	0.55		0.15	4.7	6	5	16	7		M. M. Smith.
Tropic	Garfield	7,000	13	31.1[i]	+ 1.1	56[i]	28	5[i]	16	34[i]	0.14	− 0.81	0.10	1.4	2	3[i]	13[i]	3[i]	nw.	E. P. Bolton.

TABLE 1.—*Climatological data for February, 1910. District No. 9*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Utah—Cont'd.																				
Vernal	Uinta	5,050	15	16.9	− 6.5	47	28	− 6	6†	37	0.01	− 0.64	0.01	1.5	1	18	4	6	.....	Joab Collier.
New Mexico.																				
Alma	Socorro	5,500	11	41.8*	+ 0.5	74*	24	5*	17	51*	T.	− 0.84	T.	0.0	0	12	13	3	sw.	M. A. Balke.
Aragon	...do	5,856	3	31.6	.....	66	28	−16	3	52	0.60	.....	0.25	6.5	2	17	8	3	sw.	John R. Milligan.
Blackrock	McKinley	6,500	2	35.2	.....	63	14	− 7	17	40	0.25	.....	0.25	4.0	1	17	8	3	w.	Wm. J. Oliver.
Bloomfield	San Juan	5,500	15	31.9	− 1.2	66	14	0	17	43	0.23	− 0.39	0.17	3.8	4	10	15	3	sw.	Fred Le Clerc.
Cambray	Luna	4,215	11	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.51	0.00	0.0	0	22	6	0	w.	Southern Pacific Co.
Columbus	...do	4,054	.....	.....	.....	74	25	7	17	.....	0.03	.....	0.03	0.0	1	20	2	6	nw.	El Paso & Southwest. R.R
Deming	...do	4,333	33	44.8	.....	80	13	10	18	58	0.00	− 0.50	0.00	0.0	0	17	5	6	e.	Southern Pacific Co.
Dulce	Rio Arriba	6,767	12	20.0	− 4.4	48	28	−21	17	54	1.39	− 0.35	0.39	18.1	8	11	11	6	w.	John M. Commons.
Fort Bayard	Grant	6,152	35	42.4	+ 1.8	73	27	4	18	47	T.	− 0.96	T.	T.	0	25	3	0	w.	U. S. Gen'l. Hospital.
Fort Wingate	McKinley	6,997	46	33.0	− 1.6	60	14	6	3	37	0.27	− 1.16	0.25	2.7	2	11	9	8	sw.	Post Hospital.
Fruitland	San Juan	4,800	17	33.3	− 1.6	64	14	7	4	42	0.22	− 0.43	0.14	2.5	3	20	6	2	nw.	Cyril James Collyer.
Gage	Luna	4,486	3	46.8‡	.....	73‡	14	10‡	17	44‡	0.00	− 0.53	0.00	0.0	0	20	7	1	w.	Southern Pacific Co.
Gila (near)	Grant	4,470	11	41.9*	− 2.7	78*	24	9*	17	56*	0.00	− 0.80	0.00	0.0	0	.....	.....	.....	.....	Miss Cozella Clark.
Hachita	...do	4,504	.....	.....	.....	.....	.....	.....	.....	.....	0.14	.....	0.14	0.0	2	17	9	2	sw.	El Paso & Southwest. R. R.
Haynes	Rio Arriba	6,600	.....	.....	.....	.....	.....	.....	.....	.....	1.54	.....	0.80	15.4	7	22	4	2	nw.	Dr. John Roger Haynes.
Hermanas	Luna	4,451	.....	.....	.....	.....	.....	.....	.....	.....	0.09	.....	0.09	0.0	1	24	3	1	.....	El Paso & Southwest. R. R.
Lordsburg	Grant	4,245	10	44.4	− 2.0	76	24	12	17†	49	0.00	− 0.47	0.00	0.0	0	18	9	1	sw.	Southern Pacific Co.
Luna (near)	Socorro	7,300	5	31.5	.....	64	24	− 6	17	49	0.07	.....	0.07	1.0	1	15	12	1	w.	C. B. Martin.
Manuelito	McKinley	6,252	5	33.0	.....	64	14†	− 1	17	51	T.	.....	T.	T.	0	14	7	7	e.	Mrs. H. F. Irick.
Mimbres	Grant	5,007	5	.....	.....	.....	.....	.....	.....	.....	0.13	.....	0.13	.....	1	22	5	1	nw.	Chas. Dennis.
Pratt	...do	4,415	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	T.	0.0	0	23	5	0	w.	El Paso & Southwest. R. R.
Putnam	San Juan	6,200	.....	.....	.....	.....	.....	.....	.....	.....	0.02	.....	0.02	T.	1	19	8	1	w.	Richard Wetherill.
Redrock	Grant	4,150	5	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	20	8	0	.....	Robert N. Woods.
Rodeo	...do	4,118	.....	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	.....	.....	.....	.....	El Paso & Southwest. R. R.
Rosa	Rio Arriba	6,000	5	.....	.....	.....	.....	.....	.....	.....	0.13	.....	0.04	.....	4	16	7	5	.....	B. A. Candelaria.
Arizona.																				
Allaires Ranch	Cochise	4,184	14	.....	.....	.....	.....	.....	.....	.....	0.00	− 0.79	0.00	0.0	0	22	1	5	w.	Thos. Allaire.
Arizona Canal Dam	Maricopa	1,372	15	54.4	− 1.8	83	24	29	17†	39	T.	− 1.18	T.	0.0	0	7	20	1	s.	U. S. Reclamation Service.
Aztec	Yuma	492	12	53.2	− 4.0	86	28	23	17	48	0.00	− 0.76	0.00	0.0	0	25	0	3	n.	Southern Pacific Co.
Benson	Cochise	3,523	28	48.8	− 1.7	84	24	10	17	52	0.00	− 0.63	0.00	0.0	0	14	13	1	e.	Southern Pacific Co.
Bisbee	...do	5,500	20	45.8	− 1.2	71	24	18	17	31	0.15	− 1.14	0.15	0.0	1	24	2	2	w.	Rev. J. G. Pritchard.
Bonita	Graham	4,916	.....	.....	.....	.....	.....	.....	.....	.....	0.00	− 1.09	0.00	0.0	0	24	2	2	w.	A. Johnson & Co.
Bowie	Cochise	3,756	33	49.0	+ 1.2	79	24	13	17	42	0.00	− 1.52	0.00	0.0	0	21	0	7	w.	Southern Pacific Co.
Buckeye	Maricopa	980	17	52.6	− 2.4	83	24	20	17†	50	0.00	− 0.77	0.00	0.0	0	26	2	0	e.	H. E. Kell.
Canille	Santa Cruz	5,225	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	14	13	1	sw.	R. A. Rodgers.
Casa Grande	Pinal	1,396	28	59.6	+ 3.9	87	25	25	16	49	0.00	− 0.62	0.00	0.0	0	27	1	0	.....	Southern Pacific Co.
Cave Creek	Maricopa	1,523	3	51.5	.....	82	24	20	16	48	0.00	.....	0.00	0.0	0	26	2	0	.....	E. A. Howard
Chin Lee	Apache	6,000	2	34.2	.....	64	14	2	17	43	0.27	.....	0.27	2.2	1	15	7	6	n.	Fr. L. Ostermann, O. F. M.
Chlarsons Mill	Graham	8,000	3	38.1	.....	65	24	9	17	34	0.30	.....	0.30	3.0	1	19	9	0	.....	H. R. Chlarson.
Clifton	Graham	3,584	19	50.2	.....	77	25	22	17	40	T.	− 1.24	T.	0.0	0	25	3	0	.....	P. Reisinger.
Cline	Gila	2,300	10	50.0	− 0.2	79	28	20	18	45	0.05	− 1.59	0.05	0.0	1	19	8	1	sw.	W. M. Clanton.
Cochise	Cochise	4,219	11	49.0	+ 2.3	78	24†	17	17	44	T.	− 1.27	T.	0.0	0	23	5	0	e.	Southern Pacific Co.
Columbia	Yavapai	1,900	11	56.0	+ 2.2	86	28	30	2†	40	0.00	− 2.16	0.00	0.0	0	22	6	0	se.	M. J. Nolan.
Congress	...do	3,688	14	51.0	− 1.7	75	24	27	17	26	T.	− 1.51	T.	0.0	0	21	6	1	sw.	Congress Mine.
Courtland	Cochise	4,543	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	El Paso & Southwest. R. R.
Dos Cabezos	...do	5,250	2	43.2	.....	74	24	14	17†	46	0.00	.....	0.00	0.0	0	20	7	1	w.	N. Erickson.
Douglas	...do	3,930	7	49.4	.....	85	24	12	17	55	0.20	.....	0.20	0.0	1	20	6	2	.....	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. F. Cook.
Fairbank	Cochise	3,862	1	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	24	2	2	.....	El Paso & Southwest. R. R.
Flagstaff (1)	Coconino	6,907	18	29.0	− 1.8	58	24	−12	3	42	0.88	− 2.40	0.64	11.4	3	12	10	6	sw.	U. S. Weather Bureau.
Florence	Pinal	1,504	11	54.0	+ 0.2	85	27	22	16	50	0.00	− 0.66	0.00	0.0	0	22	1	5	w.	Pacific & Eastern R. R.
Fort Apache	Navajo	5,200	39	39.8	− 0.1	75	24	6	17	51	0.07	− 2.12	0.07	0.0	1	21	6	1	e.	Post Hospital.
Fort Huachuca	Cochise	5,100	25	50.2	+ 3.0	79	24	20	17	41	0.00	− 1.13	0.00	0.0	0	28	0	0	se.	Post Hospital.
Fort Mohave	Mohave	604	39	56.5	− 0.1	90	28	24	17	45	0.00	− 0.93	0.00	0.0	0	23	5	0	.....	A. F. Duclos.
Gilabend	Maricopa	737	19	55.4	− 1.3	85	24†	23	17	45	0.00	− 0.76	0.00	0.0	0	24	4	0	sw.	Southern Pacific Co.
Globe	Gila	3,525	9	48.2	.....	75	24	20	17	42	0.07	.....	0.07	0.0	1	14	14	0	nw.	Dr. B. G. Fox.
Grand Canyon	Coconino	6,866	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Grand Canyon Ry.
Greer	Apache	9,200	6	.....	.....	.....	.....	.....	.....	.....	0.60	.....	0.30	6.0	4	16	4	8	s.	Mrs. M. Butler.
Hereford	Cochise	4,180	1	.....	.....	.....	.....	.....	.....	.....	0.05	.....	0.05	0.0	1	25	3	0	.....	El Paso & Southwest. R. R.
Holbrook	Navajo	5,069	21	38.4	− 0.7	70	27	5	17	47	0.16	− 0.48	0.08	1.5	3	23	4	1	sw.	T. Larson.
Intake	Gila	2,230	3	.....	.....	.....	.....	.....	.....	.....	0.00	.....	0.00	0.0	0	23	5	0	ne.	A. J. Robinson.
Jerome	Yavapai	4,743	13	45.4	− 1.4	71	28	20	17	32	0.24	− 1.76	0.24	0.0	1	22	5	1	sw.	Dr. L. A. Hawkins.
Keams Canyon	Navajo	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. R. Ballard.
Kingman	Mohave	3,326	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. R. Gooding.
Lewis Springs	Cochise	4,029	1	.....	.....	.....	.....	.....	.....	.....	0.03	.....	0.03	0.0	1	13	15	0	se.	El Paso & Southwest. R. R.
Maricopa	Pinal	1,186	33	56.0	+ 0.8	85	13	26	3	45	0.00	− 0.70	0.00	0.0	0	25	2	1	w	Southern Pacific Co.
Mesa	Maricopa	1,244	14	54.4	− 0.4	89	28	26	17	53	0.00	− 0.93	0.00	0.0	0	19	9	0	se.	C. L. Diehl.
Mohawk Summit	Yuma	538	9	60.0	− 0.9	87	25†	38	3†	37	0.00	.....	0.00	0.0	0	28	0	0	e.	Southern Pacific Co.
Naco	Cochise	4,579	1	.....	.....	.....	.....	.....	.....	.....	0.04	.....	0.04	0.0	1	24	3	1	sw.	El Paso & Southwest. R. R.
Natural Bridge	Gila	4,990	21	.....	.....	.....	.....	.....	.....	.....	0.30	− 2.07	0.15	1.0	2	17	11	0	sw.	D. G. Goodfellow.
Nogales	Santa Cruz	3,830	.....	49.8	.....	88	28	20	16†	56	0.00	.....	0.00	0.0	0	14	13	1	.....	Wallace & Summerhayes.
Oracle	Pinal	4,500	18	48.2	+ 0.4	74	24	21	17	35	0.75	− 0.96	0.75	0.0	1	22	5	1	.....	W. H. Winters.
Osborn	Cochise	4,676	1	.....	.....	.....	.....	.....	.....	.....	0.20	.....	0.20	0.0	1	26	1	1	sw.	El Paso & Southwest. R. R.
Paradise	Cochise	3,940	4	42.8	.....	76	24	7	17	49	0.57	.....	0.57	0.0	1	14	13	1	sw.	J. C. Hancock.
Parker	Yuma	345	13	55.4	− 0.8	86	27	22	17	51	T.	− 0.50	T.	0.0	0	23	5	0	w.	Dr. H. V. King.
Payson	Gila	5,500	1	41.5	.....	71	13†	9	17	50	T.	.....	T.	T.	0	13	7	8	s.	M. McDonald.
Phoenix (1)	Maricopa	1,108	15	54.1	− 0.3	83	13	26	17	40	T.	− 0.69	T.	0.0	0	18	10	0	e.	U. S. Weather Bureau.
Pinal Ranch	Pinal	4,520	15	.....	.....	.....	.....	.....	.....	.....	0.10	− 2.72	0.10	0.5	1	27	1	0	.....	Irion & Craig.
Pinto	Apache	5,660	5	.....	.....	.....	.....	.....	.....	.....	0.70	.....	0.50	7.0	2	21	3	4	sw.	Mrs. C. F. Henning.
Prescott	Yavapai	5,320	45	38.8	+ 0.7	71	13†	8	17	47	0.28	− 1.39	0.23	3.0	2	17	10	1	.....	Dr. J. W. Flinn.
Quartzsite	Yuma	800	2	52.4	.....	84	28	20	17	45	0.00	.....	0.00	0.0	0	22	6	0	n.	W. E. Scott.
Redrock	Pinal	1,856	2	55.4	.....	84	14	25	18	42	T.	.....	T.	0.0	0	13	15	0	w.	W. J. Crowell.
Roosevelt	Gila	2,175	6	52.4	.....	77	28	27	17	35	0.31	.....	0.31	0.0	1	24	4	0	.....	W. A. Schoenfeld.
Sacaton	Pinal	.....	2	53.0	.....	84	13	17	17	53	0.00	.....	0.00	0.0	0	22	6	0	.....	M. F. Gilman.
Saint Johns	Apache	5,650	5	37.6	.....	71	23	2	17	49	0.08	.....	0.08	0.8	1	15	11	2	nw.	A. Shreeve.
Saint Michaels	...do	6,950	22	29.5	− 1.4	56	14†	− 1	3	32	0.13	− 0.91	0.08	3.0	2	15	7	6	sw.	Rev. A. Weber, O. F. M.
Salome	Yuma	1,873	3	41.5	.....	83	14	18	17	49	0.00	.....	0.00	0.0	0	24	4	0	n.	Mrs. M. B. Swartz.
San Carlos	Gila	2,456	28	48.4	− 1.3	80	24	15	17	49	0.06	− 1.43	0.06	0.0	1	21	7	0	w.	F. S. Thomas.
San Simon	Cochise	3,609	26	48.5	− 0.9	75	24	18	17	40	0.00	− 0.43	0.00	0.0	0	22	6	0	.....	Southern Pacific Co.
Seligman	Yavapai	5,219	.....	38.6	.....	66	13	8	18	44	0.08	.....	0.08	1.0	1	18	9	1	sw.	C. W. Dougherty.
Sentinel	Maricopa	685	11	53.6	− 3.2	85	28	28	4†	42	0.00	.....	0.00	0.0	0	27	1	0	.....	Southern Pacific Co.
Showlow	Navajo	6,300	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. Woolford.
Silverbell	Pima	2,650	4	55.8	.....	82	13	30	17	32	0.00	.....	0.00	0.0	0	22	5	1	w.	Imperial Copper Co.
Supai	Coconino	3,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Coe.
Tempe	Maricopa	1,165	6	52.8	.....	82	13	25	17†	45	0.00	.....	0.00	0.0	0	27	1	0	nw.	F. H. Simmons.

TABLE 1.—*Climatological data for February, 1910. District No. 9*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Arizona—Cont'd.																				
Thatcher	Graham	2,800	7	46.3	.....	77	14†	12	17	50	0.10	.....	0.10	0.0	1	10	18	0	nw.	Prof. J. H. Larson.
Tombstone	Cochise	4,550	11	48.4	− 0.8	77	24	19	16	39	0.00	− 0.91	0.00	0.0	0	22	6	0	.....	F. N. Walcott.
Truxton	Mohave	4,197	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. B. Atkinson.
Tuba	Coconino	4,500	12	36.8	− 1.8	65	14	11	3†	41	0.53	+ 0.04	0.30	5.3	3	4	18	6	ne.	G. H. Kraus.
Tucson	Pima	2,390	30	50.1	− 3.3	82	24	19	17†	52	T.	− 0.91	T.	0.0	0	1	25	2	nw.	University of Arizona.
Vail	...do...	3,421	11	49.4	− 6.6	80	24	15	17	48	0.10	− 0.84	0.10	0.0	1	23	5	0	w.	Southern Pacific Co.
Walnut Grove	Yavapai	3,649	18	.....	.....	.....	.....	.....	.....	.....	0.02	− 1.48	0.02	0.0	1	22	6	0	.....	J. O. Carter.
Wickenburg	Maricopa	2,072	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Santa Fe, Presc't & Phoenix
Willcox	Cochise	4,164	28	43.4	− 2.4	75	21†	12	18	51	0.00	− 0.89	0.00	0.0	0	11	1	16	s.	Southern Pacific Co.
Williams	Coconino	6,750	8	34.2	.....	63	24	− 4	3	38	0.70	.....	0.35	7.0	3	12	12	4	sw.	E. J. Nordyke.
Winslow	Navajo	4,853	5	37.0	.....	70	28	5	17	49	0.40	.....	0.25	4.0	3	16	5	7	.....	J. F. Bauer.
Yarnell	Yavapai	4,700	12	.....	.....	.....	.....	.....	.....	.....	0.00	− 2.31	0.00	0.0	0	7	21	0	n.	E. L. Bartholomew.
Yuma	Yuma	141	29	57.1	− 2.1	86	28	30	18	40	0.00	− 0.60	0.00	0.0	0	27	1	0	n.	U. S. Weather Bureau.
Nevada.																				
Las Vegas	Clark	.....	.....	46.6	.....	76	14	10	17	56	0.00	.....	0.00	0.0	0	12	14	2	se.	Salt Lake Route.
Logan	...do...	.....	.....	47.2	.....	76	28	19	17	44	0.10	.....	0.10	0.0	1	12	9	7	n.	Ray M. Filcher.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 9, Colorado Valley.*

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Wyoming.																																	
Daniel	Green	T.	.20						T.				T.	T.	T.	T.			T.	.20	T.	.10	T.	T.	T.	T.		.20	.30				1.0
Dixon	Snake																																
Eden	Green								T.			T.			T.					.10	T.		.05			T.							0.15
Green River	do		T.						T.			T.			.05				.13	.10			.01			T.			.01				0.30
Kendall	do																																
Pinedale	do											.07			T.					.16		.03					T.	T.	.20				0.46
Rambler	Snake																																
Willow Creek Cabin	Green																																
Colorado.																																	
Ashcroft	Grand			T.					.06		T.	.05	.09		T.	.35	.05		.11	T.		.20		.25		.13	.30	.03	.14				1.76
Breckenridge	do								T.		T.	.05	T.			.12	.14		.05	T.	.12	T.		.30		T.	.05		.70				1.53
Cascade	San Juan		.52						.02			T.	T.			.07			.07	.28	.24	.13		.42		.08	.01		.01				1.85
Chromo	do																																
Coebetopa	Gunnison		T.						.03		T.		.04			.05	.02		.04	.02		.24		.10		T.	.05		T.				0.59
Collbran	Grand			.04					T.			T.				.07	T.		T.	.35	T.	.10		.11		.02	T.						0.69
Columbine	Yampa								T.		.46	.44	.30			.25	T.	T.	.32	.38	.07	.32				T.	*	.63	.30				3.47
Columbine Ranch	Gunnison			.07												T.			.25	.64	T.			.17		.07		T.					1.20
Corona‖	Grand		.04							.28		.12	.50	.16		.18	.26		.04	.76	.54	.10	.12	.26			.54	.18	.34				4.42
Crawford	Gunnison			.06					.07			.01					.05		.05	.27	.07					.05	.20	.02					0.85
Crested Butte	do		.07					.03				.15			.14	T.	T.		.26	.38	.42			.43		.40			.57				2.85
De Beque	Grand																																
Delta	Gunnison																.02																0.02
Dillon	Grand								T.		T.	.05	T.	T.	T.	.11	.13		.04	T.	.12	T.		.22		T.	.40		.28				1.35
Dolores	Dolores		.18										.11									.17											0.46
Durango	San Juan		.39	.06					.02							T.	T.		T.	.18	.06	.20		.07		T.			T.				0.98
Eagle	Grand															.12			.04	.18	.05	T.		.20		T.							0.59
Eureka	San Juan		.20						.20			.11				.16			.03	.17	.18			.58		.08	.10	.09	.20				2.17
Fraser‖	Grand								T.		T.	T.	.10			.10	T.		T.	T.	.20	T.		.10			T.		.10				0.60
Fruita	do			.10											T.					.19	T.	.04					.02		T.				0.35
Gladstone	San Juan		.41	.08					.30				.32			.29	.20		.19	.37	.40	.09	.41	.88	.30	.18	.17	.10	.11				4.80
Glenwood Springs	Grand											T.	T.	.04					.10	.11	.20		T.	.22		T.	T.						0.67
Grand Junction	do		.02	T.												T.			T.	.10	T.	.01	T.			.01			T.				0.14
Grandlake	do								.20											.52	T.					T.	T.	T.	.64				1.78
Grand Valley	do			.01								.01							T.	.24	.12	.04		.06		.03	.02						0.53
Gunnison	Gunnison								.08			T.	T.	T.	.02	.05			.15	.18	.09	.23				.09	T.		.07				0.96
Horsefly	do																																
Ironton	do		.18						.30			.04				.14	.05		.08	.12	.30	.32		.16		.14	.21	.08					2.12
Kremmling	Grand			T.							.04	.10	.13		.02		.03		.07	.30	.10			.05		.04		.04	.10				1.02
Lake City	Gunnison		.09						.08				T.			.07	.04		.14	T.	.20	.11		.27		.01	.05		.05				1.11
Lay	Yampa		T.								.03	T.				.20			.14	.13	T.	.15		.06		.04							0.75
Leal	Grand								.03				T.			.20				.30			.20			.10							0.83
Lujane	Gunnison			.01					.10							.04	.06				.04	.09				T.	.05		T.				0.39
Mancos	San Juan		.77						.07										.10			.41		.05			.02						1.42
Marble	Grand		*	.02					.05		.01	*	.17			.30	.02		.02	.36	.19	.02	*	.17		.27	.15	.01	.10				1.86
Marshall Pass	Gunnison		T.	T.					.09	T.		.14	.33	.13	.06	.41	.08			.28	.38	T.	.26			.17		.24	.29				2.86
Meeker	White		T.								.02	.02				T.			*	.20	.01			.25		.16	.10		.02				0.78
Montrose	Gunnison								.12												T.												0.12
Nast	Grand								T.		T.	T.	T.			.15	T.		T.	.25	.14	.18		.45		.12	T.	.12	.40				1.81
Pagoda	Yampa										.07	.07	.09			.80			.50		.42		T.						.40				2.35
Pagosa Springs	San Juan		.27						.04							.08	.11			.24	.02	.06				T.							0.82
Paonia	Gunnison			.50					.17			T.				T.			.08	.66	.17					.06			T.				1.64
Parshall	Grand																		T.		.10								.10				0.20
Pitkin	Gunnison								T.					.10		.08	T.		.05	.10	.10	.05		.12		.07			.10				0.77
Rangely	White		.13													.03			.14	.27				.32		T.	T.						0.89
Redcliff	Grand																																
Rico	Dolores		.50									T.				.07			.10	.20	.25	.18		.20		.05			.10				1.65
River Portal	Gunnison		T.					.12							.07	.05		.04		.14	.13					.24			.08				0.87
Sapinero	do		.02	.12					.27		T.	.06	.06			.23	.13	T.	.23	.27	.37	.35		.08		.12	.39	.02	.05				2.77
Shoshone	Grand			.02					T.		T.	.04	T.		.02	.18	.02		.33	.71	.07	.08	*	.44		.11	T.	T.	.16				2.18
Silverton (1)	San Juan		.27	.08					.10							.20	.05		.20	.12	.35	.36		.40		.18	.10		.05				2.46
Silverton (near)	do		.30						.25							.05	T.		.05	.10	.30	.20		.30		.22	T.		.10				1.87
Spruce Lodge	Grand								.09		.07	.27	.34			.39	.04	.08	.12	.18	.25	.09		.29		.11	.20		.36				2.88
Steamboat Springs	Yampa											.50			.14					1.05				.76		.34			.74				3.53
Tacoma	San Juan		.39						T.							T.			T.	.15	.08	.03	*	.19									0.84
Terminal Dam	do		.56	.14															.08	.26	.09			.12									1.25
Uncompahgre Plateau	Gunnison		*	.20				.08							T.	.10			T.	.40	.20	.07	T.	T.	T.		T.						1.05
Whitepine	do											.35				.37					.50			.33					.32				1.87
Yampa	Yampa								T.		.03		.10			.03			.13	.09		.08		.13			.04		.07				0.70
Utah.																																	
Baker	Colorado		.46	.08			T.				T.							.01		T.	T.	T.				T.							0.55
Basin	Grand			.30							.18						.08			.72	.08			.38									1.74
Castle Dale	Green																			.40				.30									0.70
Emery	Colorado																T.							.20									0.20
Escalante	do		.75	.25																													1.00
Fort Duchesne	Green		.10																.10	.15				.09									0.44
Grayson	San Juan		*	.50					T.											.20	T.			T.			T.						0.70
Green River	Green																					T.											T.
Hanksville	Colorado																																
Hite	do		.21																	T.						T.	T.	T.					0.21
La Sal	Grand			.36																	22	T.		T.		T.							0.58
Loa	Colorado																						.20										0.20
Mill Canyon	do														.50											T.							0.50
Moab	Grand		T.	.03												T.				T.													0.03
Monticello	do																																
Orderville	Colorado																																
Price	Green																																
Ranch	Colorado	.05	.76																		T.												0.81
St. George	do	.03																															0.03
Scofield	Green																																
Springdale	Colorado		T.													T.										T.							T.
Strawberry	Green		.40							.25	.20					.20			1.65	2.40		.30		.60		.20			.50				6.70
Sunnyside	do																	.60		.10									.10				0.80
Theodore	do	*	.15												T.	.02			.15	.10		T.	T.	.05		T.			.08				0.55
Tropic	Colorado																																
Vernal	Green																		T.	.01				T.			T.						0.01
New Mexico.																																	
Alma	Gila																				T.												T.
Aragon	do		.35	.25																													0.60
Blackrock	Little Colorado		T.																		.25					T.							0.25
Bloomfield	San Juan		.02	T.												T.	T.			.04	.10	.07											0.23
Cambray	Mimbres																																0.00
Columbus	Gila	T.	T.			.03	T.																										0.03
Deming	Mimbres																																0.00
Dulce	San Juan		.21	.20					T.							T.	.11	.06		.32	.05	.39		.05		T.							1.39

TABLE 2.—*Daily precipitation for February, 1910. District No. 9*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
New Mexico—Cont'd.																																	
Fort Bayard	Mimbres		T.						T.							T.	.25				T.											T.
Fort Wingate	Little Colorado		.02																														0.27
Fruitland	San Juan		.14																.04	.04													0.22
Gage	Mimbres																																0.00
Gila (near)	Gila																																0.00
Hachita	...do					*	.14																										0.14
Haynes	San Juan		.70	.10												.01	.10			.11	.32	.20											1.54
Hermanes	Gila						.09																										0.09
Lordsburg	...do																																0.00
Luna (near)	...do		.07																														0.07
Manuelito	Little Colorado		T.																		T.												T.
Mimbres	Mimbres		.13																														0.13
Pratt	Gila			T.		T.	T.												T.		.02												T.
Putnam	San Juan																																0.02
Redrock	Gila																																0.00
Rodeo	...do																																0.00
Rosa	San Juan	.03															.03		.03	.04													0.13
Arizona.																																	
Allaires Ranch	Sonora																				T.												0.00
Arizona Canal Dam	Salt																																T.
Aztec	Gila																																0.00
Benson	San Pedro																																0.00
Bisbee	...do					.15																											0.15
Bonita	Mimbres																																0.00
Bowie	Gila																																0.00
Buckeye	...do																																0.00
Canille	San Pedro																																0.00
Casa Grande	Gila																																0.00
Cave Creek	Verde																			T.	.27												0.27
Chin Lee	San Juan		T.																			T.											0.30
Chlarsons Mill	Gila	.30																															T.
Clifton	...do		T.																		T.												0.05
Cline	Salt		.05																														T.
Cochise	Desert		T.																														0.00
Columbia	Agua Fria																									T.							T.
Congress	Hassayampa	T.																															
Courtland	White																																0.00
Dos Cabezos	Desert					T.	.20																										0.20
Douglas	Sonora																																
Dudleyville	Gila																																0.00
Fairbank	San Pedro															T.	T.			T.	.24					T.							0.88
Flagstaff (1)	Little Colorado	.20	.44																														0.00
Florence	Gila																			.07	T.					T.							0.07
Fort Apache	Salt																																0.00
Fort Huachuca	San Pedro																																0.00
Fort Mohave	Colorado																																0.00
Gilabend	Gila																																0.07
Globe	Salt		.07																														
Grand Canyon	Colorado																.10			.10	T.					.10							0.60
Greer	Little Colorado			.30																													
Hereford	San Pedro															.03					.08					.03							0.16
Holbrook	Little Colorado																																0.00
Intake	Salt																				T.												0.24
Jerome	Verde		.24																														
Keams Canyon	Little Colorado																																
Kingman	Colorado																																0.03
Lewis Springs	San Pedro						.03																										0.00
Maricopa	Gila																																0.00
Mesa	Salt																																0.00
Mohawk Summit	Gila																																0.04
Naco	San Pedro				.04																.15												0.30
Natural Bridge	Verde		.15																														0.00
Nogales	Santa Cruz																									T.							0.75
Oracle	San Pedro		.75				.20																										0.20
Osborn	...do						.57																				T.						0.57
Paradise	Desert		T.																		T.												T.
Parker	Colorado	T.																			T.												T.
Payson	Verde		T.																		T.												T.
Phoenix (1)	Salt																																0.10
Pinal Ranch	...do		.10													T.	T.			.50													0.70
Pinto	Little Colorado		.20																		.05												0.28
Prescott	Hassayampa		.23																														0.00
Quartzsite	Colorado																									T.							T.
Redrock	Santa Cruz	T.																		T.	T.					T.							0.31
Roosevelt	Salt		.31																														0.00
Sacaton	Gila																																0.08
St. Johns	Little Colorado		.08													T.	T.					.05	T.										0.13
St. Michaels	...do		.08						T.																								0.00
Salome	Colorado																				.06												0.06
San Carlos	Gila																																0.00
San Simon	...do																																0.08
Seligman	Verde		.08																														0.00
Sentinel	Gila																																
Showlow	Little Colorado																																0.00
Silverbell	Santa Cruz																																
Supai	Colorado																																0.00
Tempe	Salt																																0.10
Thatcher	Gila		.10																														0.00
Tombstone	San Pedro																																
Truxton	Little Colorado																				.15												0.53
Tuba	...do		.08	.30																							T.						T.
Tucson	Santa Cruz		T.																														0.10
Vail	...do		.10																		T.												0.02
Walnut Grove	Hassayampa		.02																														
Wickenburg	...do																																0.00
Willcox	Desert															T.					.15												0.70
Williams	Colorado	.20	.33														T.				.05												0.40
Winslow	Little Colorado	.10	.25																														0.00
Yarnell	Hassayampa																																0.00
Yuma	Colorado																																
Nevada.																																	0.00
Las Vegas	Colorado																																0.10
Logan	...do	T.	.10																														

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 9, Colorado Valley.*

Date.	Wyoming.				Colorado.								Utah.								New Mexico.			
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Fort Duchesne.		Hite.		Moab.		St. George (Experiment station).		Fort Bayard.		Fort Wingate.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	31	6	29	1	46	32	14	2	41	25	14	2	47	30	2	−6	29	11	54	36	46	23	47	31	49	27	49	22
2	22	−13	27	−13	32	21	20	10	36	17	26	11	36	14	−1	−15	25	6	36	15	36	14	38	15	38	15	38	15
3	16	−35	17	−34	40	4	9	−4	16	−15	11	−14	32	11	−4	−25	11	−15	32	11	32	11	32	11	32	11	32	11
4	20	−14	12	−15	41	9	16	4	28	−2	10	−10	34	11	−14	−28	14	−10	34	11	34	11	34	11	34	11	34	11
5																												
6	26	−12	24	−11	46	30	36	11	36	11	36	11	36	11	36	11	36	11	36	11	36	11	36	11	36	11	36	11
7	26	−23	24	−12	41	15	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
8	25	−15	25	−15	41	15	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
9	32	−23	32	−15	41	15	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
10	30	−15	32	−15	41	15	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
11																												
12	32	−1	32	−1	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
13	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
14	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
15	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
16																												
17	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
18	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
19	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
20																												
21	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
22	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
23	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
24	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
25																												
26	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
27	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
28	36	10	36	10	46	30	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12	36	12
Mns	26.2	−9.0	29.6	5.8	40.1	14.1	41.0	21.0	20.2	−12.1	33.8	6.2	32.8	−0.4	42.4	10.2	28.4	−4.6	50.8	27.1	47.8	22.4	58.5	23.5	58.1	26.8	44.6	19.6

Date.	Arizona.																											
	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		San Carlos.		Tucson.		Yuma.		Logan, Nev.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	56	40	43	19	59	30			75	50	84	54	69	34	77	46	84	54	84	54	87	57	77	37
2	51	37	36	−2	42	31			69	42	76	46	64	34	72	46	76	54	82	54	84	54	72	36
3	49	34	29	−12	55	14			72	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
4	46	36	32	13	55	14			72	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
5	51	27	32	3	59	21			72	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
6	53	35	44	2	59	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
7	57	33	42	11	60	26			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
8	58	31	46	13	56	17			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
9	57	33	46	8	51	14			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
10	53	30	38	10	50	12			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
11	57	32	44	12	55	23			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
12	61	36	47	13	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
13	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
14	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
15	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
16	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
17	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
18	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
19	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
20	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
21	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
22	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
23	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
24	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
25	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
26	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
27	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
28	61	37	46	21	60	15			75	32	82	46	64	32	72	46	76	54	82	54	84	54	72	36
Means	57.6	34.1	42.6	15.4	59.0	20.5			74.7	36.2	68.6	39.6	54.4	23.2	41.0	18.0	67.6	29.3	68.9	31.3	73.2	40.9	64.9	28.6

Climatological Data for February, 1910.

DISTRICT No. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

Unusually stormy conditions prevailed over the Great Basin for the larger part of February. The precipitation, though frequent, was below normal. The month as a whole was much colder than usual, and one of the coldest Februarys on record. In Utah and Nevada it was the coldest since 1903, and in Oregon, with two exceptions, the coldest since 1888.

TEMPERATURE.

The monthly mean temperature for the district, as a whole, was 28.0°, which is nearly 3° below the normal. Nearly every station reported monthly mean temperatures below normal, the greatest deficiencies were reported in northern Nevada and Utah, but exceptionally large minus departures were also reported at various other places in the district. The average departures from the normal ranged from −10° at Corrinne, in the northern part of Utah, to 0.4° at Fillmore, in the south-central portion of the same State. The highest local mean temperature was 44.4° at Jean, Nev., and the lowest, 12.4° at Border, Wyo.

The exceptionally cold weather of December and January continued through the first decade of this month, most stations reporting their lowest temperatures on the 2d, 3d, and 4th. Very nearly every station in this district reported minimum temperatures of zero and below, the lowest being −37° at Border, Wyo., on the 4th. Seasonable temperatures prevailed from the 10th to the 14th, many stations reporting their highest temperatures during this period. The temperature fell sharply on the 14th and the weather continued cold until the 16th, when it grew warmer, and as a rule, normal temperatures or above obtained for the remainder of the month. The highest temperature was 79° at Jean, Nev., on the 28th, and the next highest 70° at McAfee's Ranch, Nev., on the same date.

The monthly range of temperature in the district was 116°.

PRECIPITATION.

The precipitation averaged 1.11 inch, which is 0.23 inch below normal. It was poorly distributed. In the Oregon section and at stations on the western slope of the mountains in Utah, amounts above normal occurred, while in the remainder of the district the amounts were generally below normal. The greatest deficiencies occurred in western and southern Nevada and in southern Utah.

The greatest monthly amount was 5.45 inches at Richins Summit. A few stations in Nevada reported no precipitation. The greatest 24-hour precipitation was 1.22 inch at Marion, Utah, on the 19th.

The only well-defined dry period extended from the 3d to the 6th, except in the Wyoming, Idaho, and Oregon sections where dry weather prevailed from the 3d to the 9th.

In most of the mountain districts in the northern portion of Utah good amounts of snow fell. It is generally well packed, assuring a plentiful water supply for the ensuing season.

MISCELLANEOUS.

A correspondent in Harney County, Oreg., remarks as follows upon the conditions there:

> The winter of 1909–10 has been the severest for 20 years. The feeding of stock began in November, whereas heretofore it usually began the last of December or in January. Feed has become scarce and consequently high, and many farmers ran out early in the winter and loss of stock occurred. It is estimated that the cattle and sheep losses amount to 20 per cent and horses 10 per cent.

Another correspondent at Christmas Lake says:

> The cold weather and snow killed many range cattle and thousands of sheep and some horses. Range stock is in very poor condition, and if we should get more snow and cold weather hundreds of head of stock will be lost as we have no more hay.

That the above noted conditions were not widespread may be gathered from the following by a correspondent at Paisley, Oreg., writing on March 6, 1910:

> The stock losses have been light. The sheep losses have been no greater than in ordinary winters. Grass is now growing, but there will be considerable loss of both cattle and sheep before the new grass is high enough for feed.

On the morning of February 2 the weather map showed an area of low pressure over Arizona and a high over Montana and the Dakotas. These conditions gave rise to very severe winds. The anemometer at the local Weather Bureau office indicated a maximum velocity of 24 miles. Higher velocities than this, however, were experienced in other portions of Utah. Telephone wires north of Salt Lake City, as far as Pocatello, Idaho, were rendered useless. It was reported that the storm at the Lucin cut-off was the worst known since it was built. The damage amounted to about $75,000, due to washing away of portions of the embankment and railings by the high water of the lake.

On February 14 another windstorm occurred, a maximum velocity of 52 miles at Salt Lake City being recorded. Considerable damage was done. Two hundred bathhouses at Saltair were demolished. The heavy waters of the Great Salt Lake washed out 4 miles of trackage belonging to the Western Pacific Railroad, doing about $50,000 damage.

The high temperature on the last day of February and continued high temperature in the early part of March caused very rapid melting of the snow, which resulted in the Reese and Humboldt rivers rising in Nevada sufficiently to overflow their banks and do considerable damage, a detailed description of which will be given in next month's report.

EVAPORATION AND PRECIPITATION MEASUREMENTS AT PROVO, UTAH.

By J. L. LYTEL, Project Engineer, United States Reclamation Service.

The following measurements of evaporation and precipitation were made at the office of the United States Reclamation Service, under the direction of Mr. Lytel, Project Engineer. The evaporating pan was placed in an open space and it, together with a standard rain gage, was surrounded by a screen fence to prevent interference.

The readings are recorded in inches and cover the period from February, 1908, to December 5, 1909, and will be continued and published regularly in the MONTHLY WEATHER REVIEW, perhaps every six months.

These evaporation measurements are very valuable from a practical standpoint and highly appreciated by those interested in water resources.—*A. H. T.*

Tabulation of daily evaporation and precipitation at the Provo office, United States Reclamation Service, during 1908.

Day.	February.		March.		April.		May.		June.		July.	
	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
1	.....	.....	*	.....	.11	.....	.17	.....	.04	.17	.26	.....
2	.....	.....	.16	.04	.08	.....	.19	.....	.10	.04	.25	.....
3	.....	.....	.06	.....	.10	.....	.14	.24	.06	.32	.25	.....
4	.08	.13	.03	.45	.12	.....	.07	.04	.07	.03	.19	.....
5	.....	.....	.03	.35	.15	.....	.05	.....	.09	.02	.18	.....
6	.04	.....	.00	.28	.20	.....	.12	.....	.11	.....	.20	.....
7	.03	.....	.03	.....	.10	.15	.21	.....	.13	.....	.19	.....
8	.02	.....	.06	.02	.12	.....	.24	.....	.10	.....	.15	.....
9	*	.....	.04	.....	.13	.....	.04	.44	.15	.....	.28	.....
10	.12	.13	.06	.....	.14	.....	.10	.....	.18	.....	.18	.....
11	.03	.67	.05	.....	.12	.....	.11	.....	.21	.....	.18	.....
12	.09	.11	.08	.....	*	.....	.11	.57	.21	.....	.20	.....
13	.04	.....	.08	.....	.35	.....	.10	.53	.23	.....	.17	.....
14	.05	.....	.10	.....	.20	.14	.12	.....	.21	.....	.14	.02
15	.03	.....	.10	.....	.19	.....	.20	.....	.14	.17	.17	.....
16	.02	.....	.10	.....	.15	.....	.19	.....	.14	.05	.27	.....
17	.03	.22	.14	.....	.17	.....	.15	.....	.13	.18	.16	.....
18	.02	.....	.18	.....	.22	.....	.16	.....	.12	.21	.18	.....
19	.03	.....	.15	.....	.17	.....	.22	.07	.22	.....	.20	.....
20	.01	.....	.11	.....	.16	.00	.06	.15	.20	.....	.18	.....
21	.01	.....	.17	.....	.19	.....	.11	.....	.22	.....	.16	.....
22	.....	.....	.13	.....	.13	.02	.12	.04	.19	.01	.17	.....
23	*	.....	.11	.....	.11	.38	.13	.....	.20	.....	.27	.....
24	.06	.....	.08	.....	.13	.....	.20	.....	.19	.....	.12	.23
25	.05	.....	.21	.....	.19	.....	.16	.....	.18	.....	.14	.....
26	.04	.....	.13	.....	.15	.....	.17	.82	.18	.....	.20	.06
27	.07	.....	.13	.34	.11	.....	.09	.71	.19	.....	.16	.....
28	.16	.....	.07	.01	.27	.....	.07	.16	.20	.....	.14	.....
29	.12	.03	.10	.....	.14	.....	.12	.....	.18	.....	.15	.08
30	.....	.....	.08	.....	.16	.....	.27	.....	.18	.....	.40	.....
31	.....	.....	.05	.43	.....	.....	.08	.24	.....	.....	.06	.....

*Evaporation and precipitation for this date were included in readings of following day.

Tabulation of daily evaporation and precipitation at the Provo office, United States Reclamation Service, during 1908.

Day.	August.		September.		October.		November.		December.	
	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
1	.16	.....	.15	.....	.08	.....	.05	.....	.....	.....
2	.17	.....	.10	.....	.12	.46	.05	.....	.....	.....
3	.18	.....	.10	.....	.10	.46	.04	.....	.....	.11
4	.18	.....	.12	.....	.02	.35	.05	.....	.....	.....
5	.17	.....	.14	.....	.04	.....	.04	.....	.....	.04
6	.35	.11	.15	.....	.07	.....	.05	.....	.....	.....
7	.02	.....	.16	.....	.07	.....	.05	.....	.....	.....
8	.17	.....	.12	.84	.06	.....	.04	.....	.....	.....
9	.17	.....	.11	.....	.07	.....	.05	.....	.....	.....
10	.14	.09	.10	.....	.07	.....	.05	.....	.....	.....
11	.19	.11	.10	.10	.07	.....	.04	.....	.....	.....
12	.18	.02	.17	.10	.08	.....	.03	.....	.....	.....
13	.....	.....	.08	.....	.08	.....	.03	.....	.....	.....
14	.....	.....	.11	.....	.12	.....	.03	.....	.....	.....
15	.09	.....	.13	.....	.12	.04	.03	.....	.....	.22
16	.16	.....	.19	.....	.00	1.36	.03	.....	.....	.24
17	.13	.....	.22	.....	.13	.20	.04	.....	.....	.07
18	.14	.....	.20	.....	.05	.06	.02	.....	.....	.04
19	.16	.....	.12	.....	.03	.55	.02	.....	.....	.....
20	.16	.....	.11	.....	.02	.21	.03	.....	.....	.....
21	.17	.....	.13	.....	.04	.04	.02	.....	.....	.....
22	.16	.....	.12	.....	.07	.....	.07	.13	.....	.....
23	.18	.....	.11	.....	.06	.....	.02	.06	.....	.....
24	.19	.....	.12	1.22	.05	.....	.02	.42	.....	.....
25	.23	.....	.12	.40	.06	.....	.06	.56	.....	.....
26	.22	.....	.07	.....	.06	.....	.04	.10	.....	.....
27	.16	.....	.08	.....	.05	.....	†	.....	.....	.....
28	.18	.....	.08	.....	.05	.....	.....	.....	.....	.....
29	.23	.....	.09	.....	.06	.....	.....	.....	.....	.....
30	.21	.....	.08	.....	.07	.....	.....	.....	.....	.....
31	.18	.....	.....	.....	.06	.....	.....	.....	.....	.....

†Evaporation observations discontinued. Water in pan frozen solid.

Tabulation of daily evaporation and precipitation at the Provo office, United States Reclamation Service, during 1909.

Day.	January.		February.		March.		April.		May.		June.	
	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
1	†	.....	†	.....	.06	.....	.11	.....	.10	.....	.15	.....
2	.....	.....	.....	.....	.05	.....	.11	.....	.12	.....	.15	.....
3	.....	.....	.....	.....	.04	.....	.11	.....	.14	.....	.14	.....
4	.....	.....	.....	.....	.18	.04	.08	.14	.....	.....	.15	.....
5	.....	.35	.....	.07	.08	.10	.15	.....	.23	.....	.15	.....
6	.....	.38	.....	.....	.08	.....	.13	.02	.16	.....	.15	.....
7	.....	.....	.....	.....	.05	.21	.10	.....	.15	.....	.15	.....
8	.....	.....	.....	.58	*	.....	.09	.....	.17	.....	.13	.....
9	.....	.....	.....	.....	.10	.11	.11	.....	.15	.....	.13	.....
10	.....	.88	.....	.....	.07	.....	.15	.....	.14	.17	.11	.....
11	.....	.....	.....	.....	.07	.....	.10	.41	.16	.03	.14	.....
12	.....	.....	.....	.21	.06	.....	.04	.17	.17	.....	.15	.....
13	.....	.29	.....	.....	.07	.....	.07	.....	.17	.....	.13	.....
14	.....	.13	.....	.....	.08	.....	.09	.....	.18	.....	.16	.....
15	.....	.....	.....	.10	.09	.....	.14	.....	.17	.....	.14	.....
16	.....	.04	.....	.....	.09	.....	.14	.....	.16	.14	.16	.....
17	.....	.....	.....	.26	.10	.04	.13	.....	.13	.....	.15	.....
18	.....	.....	.....	.....	.05	.17	.17	.07	.14	.....	.16	.....
19	.....	.....	.....	.....	.05	.23	.12	.52	.12	.....	.21	.....
20	.....	.09	.....	.....	.04	.....	.16	.26	.13	.....	.15	.05
21	.....	1.24	.....	.....	.05	.04	.13	.....	.13	.....	.15	.....
22	.....	.48	.....	.....	.04	.....	.14	.....	.13	.....	.15	.....
23	.....	.12	.....	.....	.11	.....	.13	.....	.14	.64	.16	.....
24	.....	.....	.....	.....	.08	.12	.15	.84	.03	.04	.15	.....
25	.....	.....	.....	.03	.10	.....	.12	.....	.06	.....	.17	.....
26	.....	.....	.....	.....	.11	.....	.11	.....	.11	.....	.16	.....
27	.....	.....	.....	.....	.12	.....	.11	.....	.13	.....	.18	.....
28	.....	.22	.....	.....	.10	.....	.10	.75	.12	.15	.18	.....
29	.....	.....	.....	.....	.09	.04	.04	.10	.10	.14	.15	.....
30	.....	.....	.....	.....	.10	.08	.08	.07	.13	.....	.16	.....
31	.....	.....	.....	.....	.10	.....	.....	.....	.13	.....	.....	.....

*Evaporation for this date was included in reading of following day.
†No evaporation observations taken during January and February, 1909, on account of freezing temperatures.

Tabulation of daily evaporation and precipitation at the Provo office, United States Reclamation Service, during 1909.

Day.	July.		August.		September.		October.		November.		December.	
	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.	Evaporation.	Precipitation.
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
1	.15	.....	.12	.....	.08	.43	.07	.....	.04	.....	.02	.20
2	.14	.....	.12	.....	.07	.....	.07	.02	.04	.....	.02	.....
3	.16	.02	.14	.....	.12	.....	.06	.....	.04	.....	.01	.15
4	.16	.....	.13	.....	.11	.....	.06	.15	.05	.....	.02	.....
5	.15	.....	.12	.....	.10	.11	.07	.14	.05	.....	†	.15
6	.19	.....	.16	.06	.09	.....	.06	.....	.05	.....	.....	.18
7	.17	.....	.16	.10	.10	.03	.08	.16	.04	.....	.....	.....
8	.17	.....	.14	.....	.09	.....	.10	.....	.04	.....	.....	.....
9	.18	.....	.11	.....	.11	.....	.08	.....	.04	.56	.....	.54
10	.19	.....	.12	.....	.10	.....	.08	.....	.05	.75	.....	.25
11	.20	.....	.13	.....	.11	.22	.07	.....	.04	.....	.....	.....
12	.18	.....	.13	.....	.09	.....	.06	.....	.05	.....	.....	.....
13	.15	.....	.15	.....	.08	.....	.06	.....	.04	.....	.....	.14
14	.14	.....	.16	.....	.08	.....	.07	.....	.04	.12	.....	.....
15	.13	.....	.06	.95	.08	.....	.06	.....	.04	.06	.....	.....
16	.16	.....	.10	.13	.09	.....	.06	.....	.04	.....	.....	.....
17	.19	.....	.10	.....	.09	.....	.07	.....	.03	.....	.....	.....
18	.13	.02	.10	.....	.17	.....	.06	.....	.03	.....	.....	.....
19	.11	.10	.09	.....	.09	.....	.06	.....	.03	.....	.....	.....
20	.11	.....	.12	.....	.09	.....	.07	.....	.03	.....	.....	.....
21	.13	.....	.13	.05	.15	.....	.06	.....	.03	.94	.....	.....
22	.11	.....	.13	.20	.12	.....	.06	.....	.03	.13	.....	.....
23	.10	.03	.14	.....	.09	.....	.06	.....	.03	.03	.....	.....
24	.10	.....	.16	.....	.09	.....	.08	.....	.02	.03	.....	.06
25	.15	.03	.15	.....	.08	.07	.07	.....	.03	.....	.....	.....
26	.16	.20	.14	.....	.07	.04	.06	.....	.02	.15	.....	.....
27	.16	.....	.15	.....	.06	.....	.06	.....	.04	.22	.....	.....
28	.17	.....	.16	.....	.07	.....	.05	.....	.03	.....	.....	.....
29	.16	.....	.16	.....	.08	.10	.05	.....	.02	.....	.....	.....
30	.16	.....	.14	.....	.11	.....	.06	.07	.02	.....	.....	.....
31	.14	.....	.08	.78	.....	.....	.04	.....	.....	.....	.....	.43

†Evaporation observations discontinued December 5. Water in pan frozen solid.

TABLE 1.—*Climatological data for February, 1910. District No. 10, Great Basin.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Wyoming.																				
Border	Uinta	6,085	8	12.4	.....	48	14	−37	4	40	1.43	.....	0.30	.....	7	10	7	11	w.	S. W. Condron.
Cokeville	do			18.4	.....	52	23	−30	4	47	0.88	.....	0.25	20.2	8	10	9	9	nw.	E. J. Tuckett.
Evanston	do	6,860	14	19.2	− 1.9	43	13	−11	3	36	1.33	− 0.11	0.46	6.5	7	12	8	8	sw.	Frank Tucker.
Idaho.																				
Geneva	Bear		2								2.87	.....	0.60	28.5	9	14	6	8	.....	F. W. Boehme.
Grace	Bannock	5,406	3	21.2	.....	45	14	−16	4	36	0.76	.....	0.39	3.0	4	13	6	9	n.	Cyril B. Dickson.
Oxford	do	4,750	2																	Edwin Smith.
Paris	Bear Lake	5,946	16	17.1	− 2.4	47	12	−24	4	49	2.60	+ 1.41	0.80	24.0	8	7	18	3	nw.	John Norton.
Stone	Oneida	4,520	2	19.2	.....	46	27†	−18	4	34	0.89	.....	0.52	16.0	5	17	3	8	n.	Thos. W. Roe.
Weston	do	4,460	12	22.6	− 4.1	45	13†	−11	4	34	1.14	− 0.98	0.29	11.0	9	8	2	18	n.	Wm. Chatterton.
Utah.																				
Alpine	Utah	4,900	13	.....	.....	.....	.....	.....	.....	.....	1.70	.....	0.80	22.5	5	4	13	11	.....	George Stevens.
Annabella	Sevier	5,250	5	.....	.....	.....	.....	.....	.....	.....	0.88	.....	0.41	15.0	5	.....	.....	.....	.....	J. W. Fairbanks.
Beaver	Beaver	6,000	7	31.2	.....	56	13†	6	3†	32	0.42	.....	0.20	4.2	6	5	19	4	.....	James Connell.
Black Rock	Millard	4,872	10	31.5	.....	62	28	0	3†	34	0.05	.....	0.05	0.5	1	8	6	14	n.	W. D. Livingston.
Castle Rock	Summit	6,244	7								1.68	.....	0.45	25.5	8	10	4	14	w.	David Moore.
Cedar City	Iron	5,750	5	32.8	.....	59	28	0	3	32	0.26	.....	0.25	6.0	2	10	9	9	s.	Parley Dalley.
Corinne	Boxelder	4,240	40	20.2	−10.0	52	28	− 4	4†	35	1.35	+ 0.15	0.70	13.5	7	3	4	20	w.	A. C. Murphy.
Deseret	Millard	4,541	16	30.0	− 1.1	63	28	− 3	4	38	0.60	+ 0.27	0.40	4.0	2	7	4	17	s.	S. W. Western.
Enterprise	Washington	4,270	2								0.16	.....	0.16	7.0	1	14	11	3	s.	John Day.
Farmington	Davis	4,267	10	29.4		55	14	6	16	29	1.85		0.60	18.0	8	14	4	10	n.	Charles Boylin.
Fillmore	Millard	5,100	20	34.2	+ 0.4	67	28	3	3	39	0.92	+ 0.56	0.35	.....	6	.....	.....	.....	.....	J. J. Starley.
Friese Summit	Wasatch																			Victor A. Friese.
Frisco	Beaver	7,318	16	30.2	− 3.9	58	28	3	17	35	0.02	− 0.69	0.02	.....	1	.....	.....	.....	.....	E. R. Smyth.
Garrison	Millard		7	30.2[e]	.....	61[e]	28	− 2[e]	4†	34[e]	0.23	.....	0.23	4.0	2	7[b]	8[b]	11[b]	s.	E. M. Smith.
Government Creek	Tooele	5,277	10	27.0	.....	55	14	0	4	28	1.25	.....	0.65	12.1	7	6	4	18	n.	Walter James.
Grantsville	do																			Allen J. Fraser.
Heber	Wasatch	5,606	17	22.9	− 1.0	52	13	−15	4	44	2.09	− 0.01	0.65	36.0	12	6	10	12	s.	John Crook.
Henefer	Summit	5,301	11	24.6	.....	54	13†	−16	4	49	3.44	.....	1.00	32.0	10	6	10	12	nw.	Wm. Brewer.
Ibapah (near)	Tooele	7,500	5	23.8	.....	54	13	− 4	16	36	1.21	.....	0.50	17.3	9	7	8	13	w.	J. S. Lawton.
Ibex	Millard			35.2	.....	64	13	6	3	37	0.36	.....	0.20	4.0	3	6	7	15	s.	John J. Watson.
International	Tooele	5,370		29.6	.....	54	13	5	4	28	1.56	.....	0.44	19.2	15	12	6	10	sw.	I. S & R. Co.
Kanosh	Millard	5,250	2								0.73		0.40		4					Geo. Crane.
Kelton	Boxelder	4,230	32	17.6	.....	43	28	−15	4	40	0.70	+ 0.08	0.40	7.0	3	6	19	3	w.	F. W. Klock.
Levan	Juab	5,010	20	27.4	− 1.2	51	14	0	4	30	0.89	− 0.72	0.38	7.5	8	7	5	16	sw.	Wm. Brown.
Logan	Cache	4,507	19	23.5	− 2.7	48	14	− 5	3	31	1.90	+ 0.60	0.75	12.0	8	7	1	20	n.	Edgar Brossard.
Lucin	Boxelder	4,504	6	23.4		48	28	− 9	4	35	0.90		0.50	9.0	5	7	8	13	.....	C. J. Burke.
Manti	Sanpete	5,575	16	24.0	− 4.5	43	28	2	4	29	1.19	− 0.29	0.33	6.0	9	10	0	18	.....	J. M. Anderson.
Marion	Summit	6,750	6								3.25		1.22	31.2	14	4	2	22	s.	Jas. Woolstenhulme.
Marysvale	Piute	6,180	11	28.6	.....	60	13	− 7	4	43	0.30	.....	0.14	6.7	7	4	7	17	ne.	John W. Henry.
Meadowville	Rich	6,200	11	18.4		48	13	−18	4	35	0.85		0.25	17.0	6	9	3	16	s.	J. S. Moffat.
Milford	Beaver	4,962	6	30.4	.....	62	17	14	3	40	0.80	.....	0.60	8.0	2	20	0	8	nw.	C. M. Temple.
Millville	Cache	4,848	15	.....	.....	.....	.....	.....	.....	.....	1.62	+ 0.40	0.65	.....	14	4	3	21	n.	Fred Yeates.
Minersville	Beaver	5,070	13								0.46		0 30	4.5	3					Geo. Roberts, sr.
Modena	Iron	5,479	10	30.4	.....	59	28	1	4	31	0.13	.....	0.07	1.5	2	8	15	5	w.	U. S. Weather Bureau.
Morgan	Morgan	508	7																	W. Visick.
Moroni	Sanpete	5,519	2								1.19		0.45	18.0	9	3	24	1	sw.	B. F. Eliason.
Mount Nebo	Utah	4,650	9	30.5		54	13	4	17		0.74		0.13	3.0	8	9	10	9	n.	D. C. Walkey.
Mount Pleasant	Sanpete	5,859	18	27.0[b]	− 3.7	48[b]	13	− 1[c]	17	33[c]	0.97	− 0.87	0.62	9.8	5	7	5	12	.....	C. B. Scoville.
Nephi	Juab	6,059	7								0.47		0.31	7.0	5	7	17	4	n.	A. M. Madsen.
Oak City	Millard	4,900	6	30.6	.....	61	28	1	4	32	0.93	.....	0.45	4.5	4	5	12	11	.....	Peter Nielson.
Ogden	Weber	4,310	9	27.8	.....	49	15	2	16	36	2.64	.....	1.10	25.6	11	9	7	12	nw.	Enoch Farr.
Panguitch Lake	Garfield	9,000	1								1.16		0.98	11.0	2	7	16	5	n.	Jas. E. Prince.
Park City	Summit	7,800	13	22.2	− 5.1	56	22	− 8	3	46	2.28	− 0.56	0.47	.....	17	8	9	11	.....	Irvin Evans.
Parowan	Iron	5,970	19	29.4	− 2.2	55	14	− 4	4	41	1.25	− 0.08	0.85	12.5	3	.....	.....	.....	.....	S. M. Matheson.
Payson	Utah	4,637	7								1.93		0.40	18.0	13	5	3	20	sw.	D. L. Coombs.
Pinto	Washington	5,907	13	29.0[c]	− 2.0	57[c]	13†	− 6[c]	3	36[c]	0.21	− 1.36	0.19	4.0	2	7[b]	11[b]	8[b]	n.	J. H. Harrison.
Promontory	Boxelder	4,913	39								2.70	+ 1.88	0.80	27.0	5	.....	.....	.....	.....	F. C. Houghton.
Provo	Utah	4,532	18	31.4	+ 0.1	60	14	5	4	37	2.27	+ 0.78	0.65	22.0	10	2	20	6	n.	James A. Oliver.
Randolph	Rich	6,442	7								1.50		0.36		9	16	0	12	nw.	William Rex.
Richfield	Sevier	5,350	20	28.6[a]	− 4.0	61[a]	28	−11[a]	4	41[a]	1.20	+ 0.47	1.00	12.0	2	11	1	15	.....	Joseph J. Jensen.
Saltair	Salt Lake	4,220	7	29.4[a]	.....	58[a]	14	9[a]	4	27	1.03	.....	0.20	9.0	11	.....	.....	.....	.....	E. J. Bench.
Salt Lake City	do	4,366	36	31.6	− 1.3	56	14	12	16	28	1.00	− 0.38	0.21	10.1	16	5	10	13	sc.	U. S. Weather Bureau.
Scipio	Millard	5,260	15	28.9	− 2.9	55	13†	−10	4	54	0.93	− 0.81	0.60	4.0	4	5	9	14	sw.	Thos. Memmott.
Silver City	Juab	6,127									0.65	.....	0.19	.....	6	5	7	16	n.	J. L. Stark.
Spanish Fork Canyon	Utah	4,585	1	30.4[a]		64[a]	14	6[a]	4	35						21	0	7	.....	U. S. Reclamation Service.
Thistle	Utah	5,075	18	28.0	− 2.1	53	28	− 4	3	40	2.70	+ 1.19	0.80	27.0	7	.....	.....	.....	.....	Denver & Rio Grande Ry.
Tooele	Tooele	4,900	14	28.7	− 4.3	56	13	0	4	30	1.15	− 0.09	0.66	.....	8	1	16	11	nw.	E. A. Bonelli.
Utah Lake Pumping Sta.	Utah	4,500	5	29.2	.....	58	14	7	4†	31	2.00	.....	0.75	20.0	12	7	16	5	.....	W. A. Knight.
Woodruff	Rich	6,500	12													16	6	6	.....	B. D. Brown.
Oregon.																				
Burns	Harney	4,157	20	25.4	− 1.6	52	28	− 9	2	29	1.97	+ 0.60	0.60	10.0	8	11	10	7	w.	J. C. Welcome, jr.
Christmas Lake	Lake	4,320	2	29.0	.....	50	28	−14	3	42	0.97	.....	0.20	4.0	10	2	5	21	nw.	John C. Green.
Paisley	do	4,500	6	33.2	.....	57	12†	0	2	30	0.49	.....	0.24	T.	9	10	6	12	.....	E. C. Woodward.
"P" Ranch	Harney	4,300																		J. P. Jefferson.
Silver Lake	Lake	4,700	14	30.7[c]	− 0.5	52	12†	− 8	3	36	1.96	+ 0.97	0.67	8.0	9	18	4	6	s.	Wm. Holder.
California.																				
Al Tahoe	Eldorado	6,235	....	29.0	.....	57	12	−11	3	45	2.29	.....	0.43	20.3	8	10	10	8	sw.	A. R. Sprague.
Boca	Nevada																			Southern Pacific Co.
Glen Alpine Springs	Eldorado	6,850	....																	E. W. Porteous.
Tahoe	Placer	6,240	....	27.8	.....	54	13	− 6	2	36	3.94	.....	0.87	40.0	7	6	7	15	nw.	Robert M. Watson.
Truckee	Nevada	5,819	39	27.2	− 0.8	58	25	−12	2	32	2.40	− 2.74	1.20	24.0	4	21	0	7	nc.	Southern Pacific Co.
Nevada.																				
Aurora	Esmeralda		....	27.8	.....	58	28	0	16	34	0.10	.....	0.10	0.3	1	19	0	9	n.	
Austin	Lander	6,594	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Bert Acree.
Battle Mountain	do	4,843	39	27.2	− 4.9	58	11	−16	3	44	0.70	− 0.12	0.50	7.0	2	10	8	10	w.	Southern Pacific Co.
Beowawe	Eureka	4,905	39	28.0	− 3.3	58	28	− 8	2†	36	0.00	− 0.74	0.00	0.0	0	15	9	4	s.	Do.
Carlin	Elko	5,232	39	26.6	+ 0.1	55	13†	−16	2	48	0.17	− 0.82	0.09	3.0	2	23	0	5	.....	Do.
Carson Dam	Churchill	4,032	3	30.2	.....	64	28	− 4	3	31	T.	.....	T.	T.	0	8	11	9	e.	U. S. Reclamation Service.
Cherry Creek	White Pine	6,450	1	27.4	.....	51	13	− 6	3	32	0.41	.....	0.15	7.7	6	6	16	6	w.	J. H. Leishman.
Clover Valley	Elko	6,000	10	27.4	.....	51	12	− 8	3†	38	2.48	.....	0.87	12.0	8	7	2	19	.....	I. F. Wiseman.
Cobre	do			22.4	− 3.1	48	25	−18	4	51						8	6	14	nw.	Southern Pacific Co.
Columbia	Esmeralda	5,750	3	34.4	.....	63	28	5	3	33	0.00	.....	0.00	0.0	0	15	8	5	nw.	A. Booth.
Dutton	Elko	5,100	2																	Golconda Cattle Co.
Elko	do	5,342	39	24.4	− 3.9	56	28	−14	5	45	0.84	− 0.17	0.26	9.0	7	9	10	9	e.	Southern Pacific Co.
Ely	White Pine	6,421	19	25.4	− 3.3	50	12	− 8	3	38	0.78	− 0.41	0.48	8.7	5	19	5	4	w.	G. C. Hunting.
Eureka	Eureka	6,500	7	27.4	− 3.0	52	28	− 4	3	31	0.52	− 0.72	0.20	8.0	6	5	5	18	n.	Clay Simms.

TABLE 1.—*Climatological data for February, 1910. District No. 10*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Nevada—Cont'd.																				
Fallon	Churchill	3,965	5	28.0	− 8.1	64	28	−12	3	33	0.04	− 0.76	0.04	.....	1	19	3	6	e.	U. S. Reclamation Service.
Fernley	Lyon	4,200	2	31.5	− 5.5	63	28	− 3	3	32	0.04	− 0.76	0.04	T.	1	17	6	5	w.	Mrs. A. J. Rankin.
Gardnerville	Douglas	4,830	10	33.0	− 3.4	64	28	−12	3	40	1.00	− 0.54	0.70	10.0	2	7	15	6	w.	Wm. Dangberg.
Geyser	Lincoln	.....	5	27.6	.....	57	28	−10	2	46	T.	.....	T.	T.	0	6	22	0	n.	Mrs. J. F. Wambolt.
Glenbrook	Douglas	.....	.....	27.0	.....	50	28	0	2	35	2.06	.....	0.51	19.5	9	6	12	10	sw.	C. C. Henningsen.
Golconda	Humboldt	4,897	31	26.7	− 7.3	56	28	− 6	3	35	0.25	− 0.41	0.10	2.5	3	11	9	8	se.	Southren Pacific Co
Halleck	Elko	5,631	17	10.6	−15.4	41	27	−27	5	30	0.40	− 0.45	0.30	5.0	3	7	10	11	nw.	Do.
Jean	Clark	2,074	2	44.4[d]	.....	79[d]	28	19[d]	16	47[d]	0.00	.....	0.00	0.0[d]	0[d]	.....	.....	.....	sw.	Salt Lake Route.
Leetville	Churchill	4,020	3	29.2	.....	62	28	−11	3	33	0.10	.....	0.10	1.0	1	13	10	5	n.	U. S. Reclamation Service.
Lewers Ranch	Washoe	5,500	22	33.7	− 0.6	60	13	− 1	2	38	1.30	− 3.76	0.40	13.0	4	3	18	7	.....	Ross Lewers.
Lovelock	Humboldt	3,977	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. S. Case.
McAfees Ranch	Esmeralda	4,835	6	31.4	.....	70	28	− 6	1	52	T.	.....	T.	T.	0	12	4	12	n.	C. H. Rodenkirch.
Millett	Nye	.....	2	32.8	.....	59	28	8	4†	34	0.19	.....	0.19	0.0	1	10	9	9	n.	Fred J. Jones.
Mina	Esmeralda	4,600	3	36.2	.....	72	27†	3	2	49	T.	.....	T.	T.	0	11	5	12	nw.	Southern Pacific Co.
Mount Rose Ranch	Washoe	.....	.....	28.6	.....	56	28	− 2	3	42	0.70	.....	0.40	5.9	4	15	6	7	sw.	Fred Elkins.
Palmetto	Esmeralda	6,780	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Isaac McConnell.
Potts	Nye	6,990	17	26.2	− 0.9	51	28	− 6	3	34	0.11	− 0.62	0.06	5.0	3	5	3	20	n.	Miss Mamie Potts.
Quinn River Ranch	Humboldt	4,850	8	21.9[k]	.....	.....	.....	−19[k]	3	44[k]	.....	.....	.....	.....	.....	.....	.....	.....	w.[k]	F. M. Payne.
Reno	Washoe	4,532	39	34.4	− 1.2	64	13	4	3	33	0.16	− 1.18	0.10	2.1	6	9	15	4	w.	U. S. Weather Bureau.
Soda Lake	Churchill	4,534	3	28.4	.....	64	28	− 5	3	32	0.05	.....	0.05	T.	1	7	13	8	n.	U. S. Reclamation Service.
Tecoma	Elko	4,812	32	21.2	− 5.7	44	14†	−22	4†	60	0.50	− 0.07	0.30	5.0	2	7	11	10	ne.	Southern Pacific Co.
Tonopah	Nye	6,090	3	32.6	.....	57	28	2	2	33	0.12	.....	0.06	2.0	3	11	11	6	nw.	U. S. Weather Bureau.
Wabuska	Lyon	4,347	7	31.2	.....	64	28	0	3†	38	0.05	.....	0.03	0.5	2	11	13	4	nw.	J. G. Young.
Wells	Elko	5,631	38	19.0	− 6.5	41	25	−19	3	52	1.02	− 0.20	0.80	10.0	3	12	0	16	nw.	Southern Pacific Co.
Winnemucca	Humboldt	4,432	31	27.3	− 6.0	55	28	−15	3	40	0.89	− 0.04	0.44	9.4	10	7	8	13	sw.	U. S. Weather Bureau.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 10, Great Basin.*

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Wyoming.																																	
Border	Bear		.25								.21				.26			.16		.16	.09							T.	.30				1.43
Cokeville	do	T.	.13								T.	T.	.21			.25			.14	.06	T.		T.	.04		T.		.02	.03				0.88
Evanston	do		.11								.07	.03			.26	T.			.09	.31		T.	T.					T.	.46				1.33
Idaho.																																	
Geneva	Bear	.15										.19				.54			.20	.30	.26						.60	.24	.39				2.87
Grace	do	T.									.05	T.						T.		.19			T.	T.			T.	.39	.13				0.76
Oxford	do																																
Paris	do	.10									.10	.70			.30				.10	.80	.11	T.							.39				2.60
Stone	Deep Creek																		.52	.18	.05		.10					.04					0.89
Weston	Bear										.10	.10							.15	.25	.03		.07			.12		.03	.29				1.14
Utah.																																	
Alpine	Great Salt Lake										.15								.50	.80			.13			.12							1.70
Annabella	Sevier Lake	.41	.16					.03												12					16								0.88
Beaver	do	T.	.20						T.	.02						T.	.02			.05	T.			.10		.03		T.					0.42
Black Rock	do	.05	T.																					T.									0.05
Castle Rock	Great Salt Lake	.05	.05										.03		.10				.30	.45	T.	.50	T.			T.			.20				1.68
Cedar City	Desert		.25														T.									.01							0.26
Corinne	Great Salt Lake										.10	.10			.08				.10	.70	.10		.20										1.35
Deseret	Sevier Lake	.20	.40							T.																			T.				0.60
Enterprise	Desert	*	.16												T.																		0.16
Farmington	Great Salt Lake	.15									.40	T.			.20	.10				.60	.10	T.	.20			T.	.10	T.					1.85
Fillmore	Sevier Lake		.35	T.				T.	T.										.01		.30			.10		.15		.01				0.92
Friese Summit	Great Salt Lake																																
Frisco	Desert		.02																														0.02
Garrison	do	*	.23																														0.23
Government Creek	do	*	.65								.10	T.			T.	.05	.05		.10	.25				.05									1.25
Grantsville	do																																
Heber	do		.05								.04	.06	.04		T.	*	.10		.56	.65			*	.32		.20		.07					2.09
Henefer	Great Salt Lake	T.	.30						T.		.10	.05			*	.60			79	1.00	.10	.05	.20			T.			.25				3.44
Ibapah (near)	Desert	.16	.50	T.				T.	.10	T.	T.				.10	T.	T.	T.	.10	.12	.04			.05			T.	.04					1.21
Ibex	do	.04	.20														T.						12										0.36
International	Great Salt Lake	*	.44						.07	*	.06	.01			.21	.12	.01		.05	.06	.06	.08	.09			.30		T.	T.				1.56
Kanosh	Sevier Lake		.40					.10															22			.01							0.73
Kelton	Great Salt Lake											.10							.20	.40													0.70
Levan	Sevier Lake	*	.38						.03	.01	T.					.05	.12		.04	.12						*	.14		T.				0.89
Logan	Great Salt Lake								*	.20	*	.20			.20	T.			.75							.45		.10					1.90
Lucin	Desert											.10	.10						.10	.50								.10					0.90
Manti	Sevier Lake	.09	.14	.03					T.							.06	.11			.33			T.	.13		.10		.20					1.19
Marion	Great Salt Lake	T.	.16						T.		.14	.09	.03		.19	.09	T.		.24	1.22	.13	T.	.14	.06			.22	.04	.50				3.25
Marysvale	Sevier Lake	T.	.14						T.	T.	T.					.01	T.			.05	.03	T.		.04		.02	.01	T.	T.				0.30
Meadowville	Great Salt Lake	.10									T.	.10			.12				.10	.18			T.			T.		T.	.25				0.85
Milford	Sevier Lake	.20		.60																													0.80
Millville	Great Salt Lake	.11	.02						.02		.04	.04	.02		.14			.06		.65	.02	.20				.16		.01	.13				1.62
Minersville	Sevier Lake	.30									.11					T.	T.							.05									0.46
Modena	Desert	.06	.07																				T.			T.							0.13
Morgan	Great Salt Lake																																
Moroni	Sevier Lake		.14						.02		.03	T.			.05	T.			.16	.45	T.			.19		.09			.06				1.19
Mt. Nebo	Great Salt Lake		T.									T.					.04	.10	.07	.10	.10		.13			.09	.11		T.				0.74
Mt. Pleasant	Sevier Lake	T.	.10						T.	T.	.05						.08		.12	.62													0.97
Nephi	Great Salt Lake	*	.07											T.	T.	*	.04		*	*	.31					.05							0.47
Oak City	Sevier Lake		.45								.40								.01							.07							0.93
Ogden	Great Salt Lake								.10		.60	.20			.02	.05			.04	1.10	.10		.30			.08		.05					2.64
Panguitch Lake	Sevier Lake	.98							T.	T.						T.	T.			T.	.18		T.				T.						1.16
Park City	Great Salt Lake	.26	.19									.03			.25	.29	.02		.01	.07	.33	.47	.06	.04	.02	.10	.05	.01	.08				2.28
Parowan	Desert	.20	.85														.20																1.25
Payson	Great Salt Lake	.21	.40						.06		.05	.06				.12		.14		.13	.04	.05		.28		.32			.07				1.93
Pinto	Desert		.19														.02																0.21
Promontory	Great Salt Lake											.40					.30		.60		.80		.60										2.70
Provo	do	.05	.25						.35		.30	.12				T.			.40	*	.65		.12			T.	.02		.01				2.27
Randolph	do		T.	.20	.36	.26								T.	.10	.05			.10	.20	T.	.08	T.					T.	.15				1.50
Richfield	Sevier Lake		1.00																T.	.20	T.			T.		T.							1.20
Saltair	Great Salt Lake	.18	.08								.10	.03			.05			.04	.03	.20		.05	.16		.11								1.03
Salt Lake City	do	.10	.04						.04	.04	.04	.01			.06	.04	.01		.04	.21	.10		.06			.19		.01	.01				1.00
Scipio	Desert		.60													T.	T.		T.	.12	T.		T.	.14		.07							0.93
Silver City	do		.14						T.		.08					T.	T.		.19	.14				.03		.07			T.				0.65
Spanish Fork Canyon	Great Salt Lake																																
Thistle	do	.20						.20							.40	.10		.80	.40	.60													2.70
Tooele	do	T.	.66						.02		.01	T.				.08	.12		.04	T.	T.	.13	T.			T.	T.	T.	.09	T.				1.15
Utah Lake Pump'g Sta.	do	.10							.05		.28	.04			.01		.05		.30	.75		.05	.07			.13			.17				2.00
Woodruff	do																																
Oregon.																																	
Ana River	Interior Drainage	T.								.07	.10				.23				.03	T.			.11		.55			.05	T.				1.14
Burns	do										.13					.18			.60				.35	.08	.23	.05		.35					1.97
Burns Mill	do																																
Cecil's Ranch	do																																
Christmas Lake	do									.05		.11					.04		.15	.06								.20	.08		.03	.15		0.97
Diamond "H" Ranch	do																																
Paisley	do	.01								T.	.01	.01			.24				T.	.01			.02			.15	.03		.01				0.49
Plush	do										.15				.10		.01		T.			.10	.10				.13						0.59
"P" Ranch	do																																
Silver Lake	do	.15										.25			.15					.38			.05		.67	.13		.15	.03				1.96
Valley Falls	do																																
California.																																	
Al Tahoe	Truckee							.43		.18				.30	.30					T.			.24	.33	.27	.24							2.29
Bijou	do	.20					.65		.18						.30					.12			.13			.15							1.73
Boca	do	.60						.60	.10												.30		.10	.20									1.90
Bodie	East Walker	.80						.40							.50								.20										1.90
Bridgeport	do																																
Brockway	Truckee							.47												.75			.27		.42								1.91
Deer Park	do	.32						.65	.26	.53					.75	.15			.26	1.02	.24		.24	.53	.40	1.06							6.41
Donner Ice Camp	do																																
Fales' Hot Springs	West Walker	.12					.15																					T.					0.27
Glen Alpine Springs	Truckee	.16						.86	.09	.26					.60	.07		*	.06	1.53			.90	1.73		2.39			.35				9.00
Hobart Mills	do	.35						.61		.20					.57					.41			.39	.95	.07	.55							3.20
Lundy	East Walker							.17							.14								.12										0.43
Markleeville	East Carson	.40						.52	.09			.20			T.						T.		.18		.04	.07							1.50
McKinney	Truckee	.20						*	.94					*	.75					.64			*	.72		.80			T.				4.05
Shields' Ranch	West Walker	.12						.11															T.										0.23
Silver Creek	East Carson	.46						.63	.20			.19			.10						.07		.29		.13	.06							2.13
Tahoe	Truckee	.20					*	.87	*	.35				.60					.64		.48		.80					T.					3.94
Tallac	do	.25						1.88		T.					.05					.64			.51		*	.32							3.65
Truckee	Truckee						1.20								.60								.40		.20								2.40
Woodfords	West Carson	T.						.20							T.								T.		T.								0.20

TABLE 2.—*Daily precipitation for February, 1910. District No. 10*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Nevada.																																	
Aurora	East Walker	.10													T.	T.																	0.10
Austin	Reese																																
Battle Mountain	Humboldt	.50								.20						T.							T.				T.						0.70
Beowawe	do																																0.00
Buckskin	Walker																																
Carlin	Humboldt	.08																	T.		T.		.09										0.17
Carson Dam	Carson	T.																	T.	T.													T.
Cherry Creek	Humboldt	.15	.06							T.					T.		.02		T.	.10	T.		.06			.02		T.					0.41
Clover Valley	do	.07								.09					.22				T.	.78	.06			.27		.12			.87				2.48
Cobre	do																																
Columbia	Desert																																0.00
Dutton	Humboldt																																
Elko	do	.07								.09		T.			.08			T.	T.	.09	.07	.18	.26										0.84
Ely	do	.48	.10														T.			.06			.10	.04									0.78
Eureka	do	.20						.05		T.		T.			.10		.05	T.		.02			.10						T.				0.52
Fallon	Carson																																
Fernley	Truckee	.04													T.					T.			T.										0.04
Gardnerville	Carson	.30						.70																									1.00
Geyser	Humboldt																																
Glenbrook	Truckee						.32	.22	.09	.09				.08	.38				.51				.30			.07							2.06
Golconda	Humboldt	T.								.10					T.								.10				.05						0.25
Halleck	do														*	.10							.30										0.40
Jean	Desert																																0.00
Leetville	Carson	.10																															0.10
Lewers Ranch	Truckee							.40							.30				.30				.30										1.30
Lovelock	Humboldt																																
McAfees Ranch	Desert	T.																															T.
Millett	Reese																		T.	T.			.19										0.19
Mina	Desert							T.																									T.
Mount Rose Ranch	Truckee		.15					.40							.10				T.	.05			T.		T.								0.70
North Fork	Humboldt																																
Palmetto	Desert																																
Paradise Valley	Little Humboldt	.10							.60						.10	.10	.10	.05	.10	.05			.25				.15						1.60
Potts	Reese	.06	T.					T.		.03						T.			T.	.02			T.			T.							0.11
Quinn River Ranch	Humboldt																																
Reno	Truckee	.01						.10							.02				T.	.61			.01		.01								0.16
Rose Creek	Humboldt	.62							.10		*	.06			.22			T.	.24				.22			T.		.02					1.48
Smith	West Walker	T.						.10								T.							.01										0.11
Spooners Ranch	Truckee	.24						.50		.18					.45				.06				.48			.40							2.61
Soda Lake	Carson	T.																	T.	T.			.05										0.05
Sweetwater	East Walker				.10																												0.10
Tecoma	Humboldt								T.	T.	T.								.20	.30							T.						0.50
Tonopah	Desert	.06						.04											.02														0.12
Wabuska	Walker	.02						.03											T.				T.										0.05
Wells	Humboldt																																
Willow Point	Little Humboldt	.60									.30					*	.10						.10										1.10
Winnemucca	Humboldt	.34						.01		.11	.08				.05			T.	.09	.05			.11	T.	T.	.01	.06	T.	T.				0.89

TABLE 3.—*Maximum and minimum temperatures at selected stations, February, 1910. District No. 10, Great Basin.*

Date.	Wyoming.				Weston, Idaho.		Utah.																		Burns, Oreg.		Elko, Nev.	
	Border.		Evanston.				Corinne.		Deseret.		Government Creek.		Marysvale.		Modena.		Ogden.		Parowan.		Provo.		Salt Lake City.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	25	− 1	40	14	31	15	25	2	40	25	35	19	41	24	42	20	35	16	38	18	46	23	38	24	24	− 5	35	8
2...	22	3	20	8	33	13	32	6	25	18	24	15	33	16	26	10	26	22	33	15	39	16	32	22	18	− 9	25	− 5
3...	4	−33	18	−11	24	− 7	30	1	30	− 2	22	1	30	− 6	25	5	25	14	34	2	36	8	28	17	25	− 2	28	−10
4...	3	−37	22	−10	20	−11	25	− 4	29	− 3	24	0	33	− 7	26	1	24	5	33	− 4	42	5	30	13	30	9	28	−10
5...	11	−28	32	− 4	26	− 6	28	1	29	2	30	2	38	− 1	32	4	27	9	35	− 2	38	9	29	13	34	3	30	−14
6...	15	−24	28	0	28	− 6	20	5	31	− 1	34	3	41	− 2	33	4	28	9	37	0	36	7	31	15	36	5	26	−11
7...	13	−17	34	− 1	25	− 2	20	1	40	4	35	8	37	4	41	14	30	13	39	2	48	13	33	16	40	9	32	− 8
8...	20	− 3	26	12	30	9	28	1	36	18	36	10	36	15	37	17	30	19	41	5	38	23	33	23	38	7	42	2
9...	20	− 8	29	4	32	9	39	13	37	11	37	13	36	5	41	18	35	19	43	8	42	15	38	20	33	11	42	10
10...	31	0	26	17	32	22	40	12	39	22	35	14	37	20	40	20	34	27	47	10	40	23	38	27	34	11	35	23
11...	36	9	29	15	34	13	38	21	47	25	43	24	49	16	49	23	39	21	52	12	38	22	43	27	47	18	45	26
12...	39	20	33	14	37	25	25	11	51	18	47	19	50	14	51	24	43	17	53	15	48	17	48	29	40	24	48	28
13...	40	11	43	20	45	25	33	15	52	25	47	31	60	21	58	28	47	29	54	20	58	27	55	36	46	16	52	15
14...	48	20	42	21	44	23	27	8	58	39	55	29	56	35	54	28	46	21	55	28	60	32	56	28	40	8	52	21
15...	24	3	21	4	25	15	30	14	35	15	30	16	49	16	30	15	49	13	50	9	38	20	28	19	34	2	36	4
16...	14	−21	10	− 5	24	− 7	25	− 4	27	10	21	9	22	10	25	12	24	2	25	1	28	17	24	12	36	12	27	− 2
17...	16	− 6	13	− 1	22	5	28	− 4	40	10	28	1	32	1	36	10	30	10	34	8	31	11	30	14	35	14	40	18
18...	28	9	25	8	34	17	38	22	53	15	35	20	43	16	46	20	31	23	42	19	38	24	36	25	34	18	37	9
19...	29	7	29	12	34	19	34	13	49	16	34	27	38	20	44	25	35	24	40	27	37	23	36	24	39	12	38	27
20...	26	0	24	6	28	6	28	10	43	18	37	10	36	7	44	16	36	16	45	21	39	12	36	23	34	5	40	18
21...	25	− 1	28	12	34	12	38	2	51	18	45	17	46	20	46	23	47	24	49	17	46	20	43	26	36	12	32	12
22...	29	11	33	9	33	11	32	5	50	20	40	17	50	20	45	26	39	13	50	20	49	19	44	26	36	19	28	8
23...	41	20	34	20	37	27	25	8	47	22	42	18	45	6	50	20	43	19	51	24	53	25	44	30	43	30	47	2
24...	36	9	42	11	42	19	40	5	49	24	48	28	51	22	53	27	45	31	53	30	49	29	49	35	42	31	52	18
25...	41	21	39	28	45	30	47	32	55	37	47	32	53	32	54	29	45	33	53	25	48	32	49	31	40	26	45	25
26...	33	9	28	16	34	13	38	15	44	21	40	24	47	25	47	22	39	20	53	26	42	24	42	28	42	32	46	28
27...	35	16	32	21	40	28	35	12	50	28	46	26	51	26	52	26	45	31	54	28	48	30	47	32	44	36	43	14
28...	34	26	32	23	40	33	52	31	63	32	50	33	58	29	59	28	45	36	53	27	47	35	49	42	52	36	56	22
29...																												
30...																												
31...																												
Mns	23.6	1.1	29.0	9.4	32.6	12.5	32.1	8.4	42.9	17.1	37.4	16.6	42.8	14.4	42.4	18.4	36.5	19.1	44.5	14.3	42.9	20.0	38.9	24.3	36.9	13.9	38.8	9.9

Date.	Nevada.																							
	Ely.		Eureka.		Fallon.		Jean.		Lovelock.		Millett.		Mina.		Quinn River Ranch.		Reno.		Tecoma.		Tonopah.		Winnemucca.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	46	14	38	10	35	15	53	36	.....	.....	45	18	26	6	29	11	27	18	28	− 4	37	8	28	0
2	42	6	16	3	24	− 7	46	20	.....	.....	23	9	37	3	24	3	26	6	28	−19	17	2	24	− 9
3	26	− 8	24	− 4	17	−12	48	30	.....	.....	29	13	41	11	22	−19	30	4	22	−21	28	6	24	−15
4	34	− 4	34	4	23	− 6	50	32	.....	.....	34	8	39	12	25	−13	34	6	36	−22	36	22	28	− 8
5	41	4	40	9	23	−10	53	28	.....	.....	42	8	32	10	28	−12	38	10	38	−22	37	25	29	− 8
6	33	2	37	8	21	− 8	60	19	.....	.....	37	10	48	11	33	−11	33	14	38	−10	38	24	34	− 6
7	39	6	38	23	31	1	56	22	.....	.....	41	20	65	16	32	− 1	40	22	38	− 7	37	23	35	8
8	43	10	38	12	29	2	55	26	.....	.....	40	13	44	8	.....	.....	39	14	38	10	36	22	33	5
9	41	14	37	19	37	18	59	27	.....	.....	38	24	49	24	.....	.....	47	29	36	17	37	27	37	9
10	46	8	36	19	37	6	58	22	.....	.....	41	14	58	25	.....	.....	45	22	38	18	41	26	41	8
11	45	10	45	28	43	19	.....	.....	.....	.....	54	29	61	20	.....	.....	54	32	40	12	49	35	47	23
12	50	16	50	21	38	14	.....	.....	.....	.....	51	20	63	37	.....	.....	55	28	42	12	52	36	45	16
13	48	12	46	34	41	26	.....	.....	.....	.....	56	25	63	36	.....	.....	64	31	42	10	51	39	53	29
14	39	10	40	19	49	28	72	25	.....	.....	53	30	41	25	.....	.....	47	27	44	12	53	20	46	20
15	38	12	21	10	32	16	.....	.....	.....	.....	32	16	36	11	32	3	32	18	44	8	25	15	31	13
16	33	6	20	7	31	18	49	32	.....	.....	28	15	50	21	34	9	36	19	38	10	25	13	30	14
17	31	4	35	4	37	19	51	14	.....	.....	43	13	50	24	39	14	48	25	32	16	41	19	35	18
18	40	10	39	24	43	25	57	20	.....	.....	45	32	56	21	46	30	49	35	30	14	38	29	40	32
19	41	9	39	23	41	31	63	27	.....	.....	44	29	50	24	42	30	48	33	42	12	39	25	41	24
20	40	6	34	20	49	25	63	32	.....	.....	41	25	52	18	39	14	43	26	36	− 6	40	25	41	24
21	42	10	46	16	44	24	60	34	.....	.....	54	27	60	23	35	22	51	26	38	− 8	43	27	39	28
22	39	14	40	20	50	29	65	28	.....	.....	49	20	60	24	39	15	44	29	40	12	46	27	40	25
23	48	12	43	14	53	28	68	31	.....	.....	54	20	59	28	42	28	52	33	42	16	48	29	46	31
24	46	18	46	28	60	29	69	30	.....	.....	57	26	61	22	48	33	55	32	44	14	47	35	49	33
25	48	15	43	26	55	31	69	45	.....	.....	49	32	58	24	.....	.....	47	31	40	14	47	28	47	28
26	45	16	41	17	49	26	70	38	.....	.....	50	20	61	22	.....	.....	56	26	42	12	51	26	39	27
27	42	20	42	26	55	30	72	30	.....	.....	52	37	72	28	.....	.....	50	36	42	12	48	32	47	32
28	49	17	52	35	64	43	79	35	.....	.....	59	45	72	30	.....	.....	62	47	43	16	57	38	55	44
29																								
30																								
31																								
Means	41.2	9.6	37.9	17.0	39.6	16.4	60.2[4]	28.5[4]	.....	.....	44.3	21.4	52.3	20.1	.....	.....	44.7	24.2	37.9	4.6	40.9	24.4	38.7	15.9

Climatological Data for February, 1910.

DISTRICT No. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

The month of February was, in general, one of unsettled weather, with both temperature and rainfall below the normal. The most noticeable feature was the continuation of the cold spell which made January a memorable month. There were no warm rains, and as a result vegetation was retarded and the season regarded as a backward one. Two hundred reporting stations show a mean negative departure of nearly 1½ inch in rainfall throughout the State. This means a large deficiency in the supply of water. In general terms, there was a deficiency of 10,000×15,980 tons of water. The rainfall was indeed the smallest for any February since 1904. The average amounts for the various intervening years were, as follows: 1904, 7.91 inches; 1905, 4.24 inches; 1906, 4.88 inches; 1907, 4.14 inches; 1908, 3.99 inches; 1909, 8.00 inches. The rainfall during 1910 was but 2.43 inches, or less than one-third of the amount that fell last February. A similar deficiency is found in the amount of snowfall in the mountains. Practically less than one-third of the amount fell this year as compared with last year. The accumulated depth of snow on the ground at the close of February was, at elevations of about 7,000 feet, variously estimated to be from 70 to 80 inches. At the same date last year the snow covering in the same localities varied from 160 to 240 inches. In the southern sections the snow cover is disappearing so rapidly in the mountains that unless additional heavy snow falls in the spring months, the ground will be bare at an unusually early date.

The temperature averaged nearly 2° below the normal. The mean, 46°, was the lowest that has occurred in February since 1904. The month was slightly colder than February, 1909; the mean temperature of the latter year was 46.6°. We have an interesting comparison then of two similar months in which the temperatures are nearly the same but the precipitation is widely different. It is hard to explain why this should be. In general, cool periods are also periods of heavy rainfall; and conversely, dry periods are found to be accompanied by marked positive temperature departures.

Some of the noteworthy features of the weather during the month were as follows: During the first week clear, cool weather in the central and northern counties, with brisk north winds. "Northers" blew in the Great Valley and along the southern coast, and were followed by colder, clear weather, with heavy frosts in the mornings. For six successive mornings these frost favoring conditions prevailed. A change occurred about the 7th and rains were general north of the Tehachapi for a period of 48 hours. Then followed an interval of fair weather, except that showers were frequent in the northern coast counties. It is noticeable that there were some marked weather disturbances in other portions of the country, especially the Atlantic coast States during this period of comparative quiet on the Pacific Coast. There was a cold period during the middle of the month and strong north winds similar in character to those occurring during the first week prevailed and were followed by heavy or killing frosts. It is interesting to note at this point that throughout the winter season which has just ended the forecasts of weather, wind, and temperature were of a high degree of accuracy. There was not a single failure to accurately forecast frost, or to give timely and ample warning to the citrus fruit growers of the State.

Near the close of the second decade a moderate disturbance developed over the Sierra, extending southward into the Valley of the Colorado. This caused unsettled weather for a period of about 48 hours. There were no heavy rains until about the 24th, and then they were confined largely to the northern counties.

As illustrating peculiar weather changes, due possibly to local causes, we may mention that on Sunday, February 27, the temperature in Ventura, Los Angeles, and Orange counties rose 12° in 24 hours, reaching summer heat, that is, a little below 80°, while in the counties just north and also in the counties just south there was a fall of 10° or more. The wind direction was the same, namely from the northwest, in all cases and no reasonable explanation of the divergence has been advanced.

TEMPERATURE.

The monthly mean temperature was 46.0°, which is 1.7° below the normal. The highest monthly mean was 58.5° at Mojave, and the lowest, 24.4°, at Tamarack. The highest temperature was 88° at Azusa on the 12th, and the lowest was −25° on the 3d at Tamarack. The greatest daily range was 57° at Tamarack on the 3d.

PRECIPITATION.

The average precipitation for the State was 2.43 inches, 1.44 inch below the normal. The greatest monthly amount was 17.25 inches at Monumental, and no precipitation occurred at 22 stations scattered throughout the San Joaquin Valley and the south. The greatest daily rainfall was 4.60 inches at Branscomb. The greatest monthly snowfall was 58 inches at Fordyce Dam.

The rainfall during the month at San Francisco was but 60 per cent of the normal, determined from records extending over 61 years. It has been exceeded 40 times in preceding Februarys, and it was the lightest for the same month in a period of 7 years.

MISCELLANEOUS.

There was a marked absence of tule fog in the Great Valley. In this respect the month was a pleasant one and more like that of February, 1908. February, 1909, was generally conceded to be a most unpleasant month, the weather conditions being disagreeable and trying. In some respects the present month resembled that of February two years ago, particularly in the southern sections. The air drained slowly down the slopes of the Sierra Madre, causing a kind of foehn effect. The nights were mostly clear and the surface wind movement light.

The sunshine was slightly above the normal. At San Francisco there were 185 hours, compared with 132 hours during the preceding year.

Earthquake shocks were reported as follows: February 1, 9:35 a. m., Eva; February 14, 9:56 p. m., Eureka, the duration about 3 seconds, Rohnerville, 10:00 a. m., a sharp shock; February 15, San Bernardino, a light shock; February 25, Alameda, 9:55 p. m., slight shock; February 26, Alameda, 11:50 a. m., light shock; February 28, Alameda, 1:30 p. m., light shock.

WEATHER AND HIGH VOLTAGE INSULATORS.

The writer has pointed out in previous issues of the MONTHLY WEATHER REVIEW that the efficiency of high potential transmission lines is, in some measure, dependent upon the ability of high voltage insulators to resist the effects of weather conditions, more particularly dew, fog, frost, surface wetting, and the deposit of dust stirred up by high winds. Various devices have been suggested from time to time, chiefly in the nature of boxes or screens, to prevent deterioration and to keep the insulating surface as clean as possible.

The following notes are abstracted from a paper upon the "Care of high voltage insulators," by Mr. J. O. Hansen, Superintendent of the Pacific Gas and Electric Company, San Jose Power Division. The article in full is published in

the Journal of Electricity, Power and Gas, March 12, 1910, page 235.

In the intensely foggy and windy climate about San Francisco Bay insulators are things that require careful watching and attention. Insulators made to stand a rain or wet test will render good service in fog and wind when they are clean; but when dirty their insulating quality becomes much impaired.

The heavy winter rains keep the insulators clean during a part of the year. During a dry spell of from 1 to 2 months so much dirt will have collected on the insulators that when they become wet there will be enough current leak over to fire the pole. The soft redwood or cedar pole itself catches fire much more easily than the pine cross-arms. When iron pins are used and are shorted by wire, the leakage current may be entirely between the wires over the insulators or the leak may be between a wire and the ground, and then fire the pole. But by running the shorting wire to the ground, the pole is thoroughly protected from such burning. Still the leakage current is present, and, if allowed to become large enough, through the wetting of the accumulated dirt by fogs or light rains, an arc forms which either shatters the insulators or burns the transmission wire in two. In the majority of cases either of these accidents is easier to repair than a burned pole. With the iron insulator pins shorted and grounded more current and consequently a greater accumulation of dirt and dampness are required to start trouble, so that more time can be allowed between cleanings of the insulators. The dirt accumulates over all parts of the insulator in an even layer; but an insulator that has been on the line through the winter has more dirt left on the protected parts than on the exposed parts where the rain has washed some of it off.

For this reason the suspension type of insulator is better than the pin insulators, because in the suspension type a larger percentage of the entire surface may be washed off by the rains. The method of supporting by a large clamp is also probably better than by a small tie wire on the pin insulators, because of the difference in corona discharges from small and large diameter surfaces.

First dry cloths were used in cleaning the insulators. Later it was found more effective to apply gasoline on the cloths to cut the dirt and grease; but because gasoline evaporates so quickly kerosene is now being used with good results. The best cleaning is with clear water applied with a hose. All parts are then washed off without any residue being left on the surface.

An insulator made to hold up under all of the dirt that will accumulate on it during a season and have its surface so exposed that the winter rains will thoroughly clean it, should give satisfactory results. The problem then presented is whether it will be cheaper to use small insulators and pay to keep them clean or use large insulators which will withstand the dirt and fogs through the summer and be automatically cleaned by the winter rains washing them.

NOTES ON RIVER CONDITIONS IN THE SACRAMENTO AND SAN JOAQUIN WATERSHEDS DURING FEBRUARY, 1910.

The stages of all streams in the Sacramento watershed during February, 1910, averaged from 3 feet to over 10 feet lower than for the corresponding month of 1909. Heavy local rains in the upper valley on the 24th resulted in a substantial rise in the upper Sacramento River during the last decade. The most rapid rises occurred at Redding and Red Bluff, where the river rose nearly 10 feet during the 24 hours ending at 7 a. m. of the 25th. The crest of this rise moved rapidly down the river, passing Colusa on the 27th and the mouth of the Feather about March 1.

No freshets occurred in any of the tributaries of the Sacramento, Stony Creek on the east keeping well below the 3-foot stage, except on the 26th, when the highest of the month, 3.1 feet, was recorded. The Yuba and Feather rivers on the west maintained uniformly low stages until the last week of the month, when melting snows resulted in a slight rise.

The San Joaquin River and all its tributaries averaged from 1 foot to over 6 feet below the usual February stages. There were neither freshets nor marked rises in any of the streams of the San Joaquin watershed during the month.

At the end of February the visible water supply was much less than usual and, at the present time, conditions indicate abnormally low streams during the coming summer.

All streams in the Sacramento and San Joaquin watersheds have averaged, since January 1, 1910, to date, much below the stages that were maintained during the corresponding period last year. They may be considered as having been practically normal, and fairly represented the stages to be expected during a period of light seasonal precipitation.

There have been no freshets in any of the tributaries of the main rivers of the two watersheds, and the compacted condition of the snow, of which there has been less than usual, has greatly reduced the run-off of the innumerable small feeders that drain in the high Sierra.

There is much less than the usual amount of water in the large flood basin of the Sacramento, and practically no run-off from the Colusa, Sutter, and Yolo basins.

The most of the levees that were damaged or leveled during the floods of 1909 have been repaired or replaced, and in some of the districts new land has been reclaimed.

The Southern Pacific Company will soon have its plans completed for a new bridge which will span the Sacramento River at Sacramento City. Arrangements will be made in the original construction of the bridge for the reception of an automatic river stage register, which will be installed by the Weather Bureau.—*N. R. Taylor, Local Forecaster.*

TABLE 1.—*Climatological data for February, 1910. District No. 11, California.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Oregon.																				
Klamath Agency	Klamath	4,169	2	24.4	.....	40	28	− 5	2	36	3.10	.....	1.50	16.0	4	11	3	14	s.	H. J. Wilson.
Klamath Falls	...do	4,250	15	30.4	− 4.0	63	14	2	21	42	2.19	+ 0.62	0.54	5.7	12	4	12	12	nw.	W. H. Heileman.
Lakeview	Lake	4,800	7	31.2	+ 0.8	50	28	1	21	38	2.30	− 0.04	0.95	22.0	5	4	12	12	s.	Geo. L. Wharton, jr.
Merrill	Klamath	4,070	4	30.0	.....	54	28	− 3	2	34	0.24	.....	0.10	2.0	5	9	6	13	.....	D. H. Ward.
Yonna	...do	.....	3	28.6	.....	50	28	−12	3	49	1.74	.....	0.58	1.1	13	2	22	4	s.	Jacob Rueck.
California.																				
Alameda	Alameda	.....	1	48.5	.....	68	13	29	4	29	1.25	.....	0.50	0.0	9	10	6	12	n.	Chas. E. Sears.
Alturas	Modoc	4,460	6	29.0	.....	57	13	−13	21	49	1.28	.....	0.30	11.5	13	7	10	11	s.	Prof. C. B. Towle.
Anderson (near)	Shasta	550	1	46.2	.....	69	12	28	3	30	5.17	.....	1.05	0.0	10	13	4	11	n.	C. S. Richardson.
Angiola	Tulare	208	10	40.4	− 9.3	70	18	20	3	30	0.00	− 0.86	0.00	0.0	0	21	7	0	n.	Santa Fe Co.
Antioch	Contra Costa	46	31	52.4	+ 1.6	68	26†	32	3†	....	1.18	− 0.42	0.70	0.0	4	15	7	6	nw.	Southern Pacific Co.
Aptos	Santa Cruz	102	25	48.9	− 0.6	68	13	27	2	....	1.93	− 1.69	0.46	0.0	9	13	3	12	nw.	Do.
Arrowhead Springs	San Bernardino	2,000	1	55.1	.....	80	12†	32	2	39	0.48	.....	0.36	0.0	2	14	14	0	ne.	G. I. Royce.
Auburn	Placer	1,360	39	51.3	+ 3.2	74	18†	31	5†	38	4.90	+ 0.05	1.35	0.0	12	10	0	18	.....	Southern Pacific Co.
Avalon	Los Angeles	.....	....	54.2	.....	70	25	41	2	19	0.09	.....	0.09	0.0	1	18	8	2	nw.	W. N. Vilas.
Azusa	...do	540	8	54.0	.....	88	12	27	3	48	0.27	− 2.68	0.18	0.0	2	24	1	3	.....	A. P. Griffith.
Bagdad	San Bernardino	784	7	58.4	.....	80	28	33	16	34	0.00	.....	0.00	0.0	....	....	....	....	.....	Santa Fe Co.
Bakersfield	Kern	404	21	50.8	− 1.6	71	27	30	3	33	0.22	− 0.29	0.18	0.0	2	24	0	4	.....	Do.
Barstow	San Bernardino	2,105	7	46.2	.....	74	28	18	3	40	0.00	− 0.43	0.00	0.0	0	27	0	1	w.	E. L. White.
Berkeley	Alameda	317	23	47.9	− 1.8	63	12†	34	2†	19	1.85	− 1.80	0.50	0.0	9	14	5	9	s.	State University
Biggs	Butte	98	11	50.8	− 4.2	68	13†	29	4	....	2.25	− 1.19	0.75	0.0	6	11	5	12	s.	Southern Pacific Co.
Bishop	Inyo	4,450	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. A. Chalfant.
Blocksburg	Humboldt	1,700	4	43.1	.....	64	12	22	3	32	10.65	.....	2.85	1.0	13	3	7	18	se.	Victor Hope.
Blue Canyon	Placer	4,695	11	37.2	− 0.6	60	13	17	2	33	5.60	− 6.96	1.50	41.0	10	15	1	12	n.	Southern Pacific Co.
Blythe	Riverside	.....	1	54.0[r]	.....	85[r]	28	22[r]	2	47[r]	0.00	.....	0.00	0.0	0	25	3	0	.....	H. V. Blenkiron.
Branscomb	Mendocino	2,000	10	42.6	.....	69	12	20	2	35	13.36	− 4.23	4.60	8.0	14	9	11	8	n.	A. J. Haun.
Brawley	Imperial	− 105	1	55.6	.....	83	28	29	18	45	0.00	.....	0.00	0.0	0	17	10	1	w.	U. S. Weather Bureau.
Brush Creek	Butte	2,140	6	40.2	.....	62	12	22	3	31	8.50	.....	1.35	T.	12	10	6	12	s.	Cal. Gas & Electric Co
Calexico	Imperial	0	5	56.8	.....	84	25	32	17†	37	0.00	.....	0.00	0.0	0	19	8	1	nw.	J. E. Peck.
Caliente	Kern	1,290	34	53.1[b]	+ 1.3	63[b]	27	34[b]	5	....	0.00	− 1.76	0.00	0.0	0	26	0	2	.....	Southern Pacific Co.
Calistoga	Napa	363	38	47.2	− 2.9	82	28	25	4	....	4.26	− 0.70	1.37	0.0	11	8	0	20	w.	Do.
Campbell	Santa Clara	217	13	48.0	− 2.3	68	13	28	5	34	0.54	− 2.02	0.20	0.0	7	11	2	15	nw.	F. M. Righter.
Camptonville (near)	Yuba	3,500	3	41.8	.....	70	12	22	2	34	12.28	.....	2.28	8.0	12	10	2	16	.....	S. B. Johnson.
Cedarville	Modoc	4,675	16	29.4	− 5.5	60	13	− 4	2	35	1.81	+ 0.48	0.40	14.5	9	11	17	0	sw.	T. H. Johnstone.
Chico	Butte	189	40	47.9	− 2.4	63	5†	21	3	40	2.49	− 0.83	1.00	0.0	10	8	6	14	s.	Butte County R. R. Co.
China Flat	Humboldt	600	1	46.6	.....	63	8	22	2	32	6.63	.....	2.04	T.	7	9	11	8	w.	O. I. Westerburg.
Chino	San Bernardino	714	18	51.2	− 2.3	80	28	32	2†	....	0.10	− 1.58	0.10	0.0	1	19	2	7	sw.	Southern Pacific Co.
Cisco	Placer	5,939	39	30.2	− 0.7	44	28	10	2	....	5.30	− 3.32	1.00	43.0	11	16	0	12	sw.	Do.
Claremont	Los Angeles	1,200	18	52.6	+ 1.0	82	12	28	2	38	0.45	− 1.41	0.35	0.0	4	16	6	6	w.	F. P. Brackett.
Cloverdale	Sonoma	340	8	48.8	.....	72	12	23	3	31	4.23	.....	0.88	0.0	12	14	10	4	n.	Lloyd Browne.
Colfax	Placer	2,421	39	41.8	− 4.1	67	13	20	3	39	6.00	− 0.62	1.50	0.5	11	10	0	18	s.	Southern Pacific Co.
Colusa	Colusa	60	7	47.4	.....	61	12†	25	3	31	1.51	− 0.42	0.95	0.0	5	....	....	....	.....	W. K. De Jarnatt.
Corning	Tehama	277	24	46.8	− 2.0	60	28	32	3	....	2.11	− 0.92	0.95	0.0	6	4	2	22	n.	Southern Pacific Co.
Cuyamaca (1)	San Diego	4,677	11	41.8	+ 5.7	68	27	21	1†	30	1.35	− 4.62	0.85	1.0	3	6	16	6	e.	L. L. Macquarie.
Daunt	Tulare	4,000	3	42.0	.....	75	13	14	2	37	2.70	.....	1.80	18.0	7	8	7	13	.....	D. L. Wishon.
Davisville	Yolo	51	38	44.4	− 7.2	65	4	24	4	41	0.40	− 1.98	0.15	0.0	8	7	12	9	sw.	S. H. Beckett.
Deer Creek	Nevada	3,700	3	37.4	.....	64	28	10	2	37	7.40	.....	2.00	20.0	11	8	9	11	.....	Cal. Gas & Electric Co.
Delta	Shasta	1,138	25	47.6	+ 2.1	71	17	25	7	40	6.85	+ 0.90	2.70	3.0	10	10	0	18	n.	Southern Pacific Co.
Denair	Stanislaus	126	10	48.9	− 0.7	82	24	25	3	34	0.55	− 1.14	0.20	0.0	7	11	8	9	se.	Santa Fe Co.
Dobbins	Yuba	1,650	6	47.7	.....	68	10	28	2	30	5.55	.....	1.52	0.0	13	6	15	7	.....	Cal. Gas & Electric Co.
Dudleys	Mariposa	3,000	1	39.6	.....	67	13	12	3†	38	2.63	.....	0.84	1.0	8	10	7	11	s.	W. H. Dudley.
Dunnigan	Yolo	65	33	48.8	− 0.4	67	26	30	3†	....	1.05	− 1.30	1.05	0.0	1	13	7	8	w.	Southern Pacific Co.
Dunsmuir	Siskiyou	2,285	21	39.8	− 1.0	57	12†	18	3	....	6.70	+ 0.88	2.16	6.0	9	10	0	18	n.	Do.
Durham	Butte	160	15	46.3	− 3.9	64	12	23	3	27	2.39	− 0.62	1.06	0.0	6	9	9	10	s.	R. W. Durham
El Cajon	San Diego	482	11	51.4	− 1.4	82	12	26	3	45	0.35	− 2.31	0.20	0.0	3	21	5	2	sw.	H. H. Kessler.
Electra	Amador	725	6	48.8	.....	67	13	27	2	29	4.19	.....	1.30	0.0	7	10	8	10	.....	Cal. Gas & Electric Co.
Elsinore	Riverside	1,234	15	50.6	− 2.4	82	12†	26	17†	49	0.14	− 1.62	0.08	0.0	2	21	4	3	s.	W. H. Bohannon.
Emigrant Gap	Placer	5,230	36	37.0	+ 1.6	58	12†	13	2	27	5.35	− 2.44	1.20	44.0	11	14	0	14	sw.	Southern Pacific Co.
Escondido	San Diego	657	16	52.1	+ 0.1	86	12	27	3†	50	0.49	− 1.89	0.40	0.0	2	0	28	0	w.	A. R. Moon.
Eureka	Humboldt	64	24	45.8	− 1.0	59	23	29	2	23	7.34	− 0.38	2.63	0.0	18	5	6	17	se.	U. S. Weather Bureau.
Farmington	San Joaquin	111	31	46.2	− 3.9	61	28	25	3	....	2.26	− 0.17	0.74	0.0	7	12	8	8	nw.	Southern Pacific Co.
Folsom	Sacramento	252	38	47.6	− 3.5	68	28	27	2	29	2.79	− 3.59	0.60	0.0	12	13	5	10	n.	F. O. Hutton.
Fordyce Dam	Nevada	6,500	15	27.0	.....	56	13	− 7	15	52	7.50	− 2.56	1.30	58.0	12	9	4	15	sw.	E. E. Roening.
Fouts Springs	Colusa	1,650	6	42.4	.....	68	12	13	3	42	3.10	.....	0.67	6.0	7	14	0	14	.....	H. S. Green.
Fresno	Fresno	293	23	48.9	− 0.3	73	13	26	2	30	0.21	− 0.96	0.09	0.0	6	9	11	8	nw.	U. S. Weather Bureau.
Fruto	Glenn	624	21	45.5	− 4.2	62	12	27	4	....	1.41	− 1.22	0.70	0.0	5	11	1	16	s.	Southern Pacific Co.
Galt	Sacramento	49	32	47.4	− 2.9	66	27	33	15	....	1.72	− 0.68	0.35	0.0	8	7	1	20	sw.	Do.
Georgetown	El Dorado	2,650	37	42.6	− 5.8	66	12	22	2	33	7.88	− 0.12	2.03	0.5	13	11	1	16	e.	H. D. Jerrett.
Gilroy	Santa Clara	193	36	51.0	+ 1.7	75	28	28	3	....	1.18	− 1.58	0.55	0.0	9	19	0	9	se.	Southern Pacific Co.
Gold Run	Placer	3,222	11	42.2	− 1.8	63	13	22	2	31	6.17	− 3.29	2.05	4.0	11	11	6	11	.....	Do.
Gonzales	Monterey	127	11	50.1	+ 2.2	75	16	26	2	....	0.48	− 1.55	0.30	0.0	4	11	0	17	n.	Do.
Grass Valley	Nevada	2,600	38	42.0	.....	67	10	18	2	35	6.32	− 0.53	1.47	0.2	12	12	4	12	s.	F. R. Hull.
Greenville	Plumas	3,600	16	34.6	− 2.1	58	13	− 4	3	44	3.75	− 2.20	0.91	16.5	9	8	8	12	ne.	C. H. Higbie.
Groveland	Tuolumne	2,828	1	41.1	.....	68	13	18	2	27	3.73	.....	1.20	1.0	8	7	14	7	.....	H. S. Richardson.
Guinda	Yolo	350	12	42.5	− 7.6	59	29	27	3	....	1.24	− 2.27	0.77	0.0	5	14	12	2	n.	Southern Pacific Co.
Hanford	Kings	249	10	49.0	− 0.2	71	14	28	3	32	0.00	− 1.50	0.00	0.0	0	25	3	3	.....	Santa Fe Co.
Healdsburg	Sonoma	110	17	48.0	− 0.1	70	28	22	3	36	3.88	− 1.03	0.95	0.0	11	13	1	14	s.	John Favour.
Hearst	Mendocino	1,800	....	36.0	.....	45	28	27	5	10	6.13	.....	1.25	7.0	11	7	6	15	nw.	H. D. Ellmaker.
Heber	Imperial	− 20	4	55.8	.....	86	28	26	17	45	0.00	.....	0.00	0.0	0	28	0	0	w.	E. T. Chumard.
Hollister	San Benito	284	36	48.7	− 3.2	73	13	26	3	34	0.70	− 1.01	0.20	0.0	9	14	9	5	n.	J. N. Thompson.
Hornbrook	Siskiyou	2,154	22	36.2	− 3.5	50	26†	21	2†	....	0.50	− 1.22	0.50	T.	1	20	6	2	n.	Southern Pacific Co.
Hot Springs	Tulare	3,300	3	40.2	.....	72	14	20	2†	36	1.08	.....	0.40	0.0	5	9	5	14	n.	U. S. Forest Service.
Hullville (near)	Lake	2,250	3	42.6	.....	69	12	14	2†	42	5.60	.....	1.09	2.8	12	1	16	11	sw.	John Duggan.
Idyllwild	Riverside	5,250	9	40.5	.....	70	28	12	2	36	0.60	.....	0.37	0.0	3	18	7	3	sw.	Earl Powers.
Independence	Inyo	3,907	14	41.4	− 2.3	74	28	16	3	40	T.	− 0.57	T.	0.0	0	23	5	0	nw.	U. S. Weather Bureau.
Indio	Riverside	− 20	32	57.5	− 1.2	86	27	29	18	42	0.00	− 0.35	0.00	0.0	0	18	10	0	se.	F. N. Johnson.
Inskip	Butte	4,975	3	34.2	.....	54	11	16	15	24	11.36	.....	2.55	43.0	12	6	6	16	.....	Cal. Gas & Electric Co.
Ione	Amador	287	32	47.2	− 2.0	67	14	23	2	....	2.28	− 0.49	0.82	0.0	8	7	0	21	sw.	Southern Pacific Co.
Iowa Hill	Placer	2,825	29	43.5	− 1.8	68	12	20	2	30	5.31	− 1.57	1.66	1.2	9	9	4	15	sw.	C. F. Macy.
Jamestown	Tuolumne	1,471	7	45.0	.....	65	28	24	2†	27	2.75	.....	1.00	0.0	7	19	5	4	.....	Sierra Ry. of California.
King City	Monterey	333	23	48.8	0	78	14	22	5†	44	0.00	− 1.54	0.00	0.0	0	28	0	0	.....	Southern Pacific Co.
La Porte	Plumas	5,000	16	32.0	− 3.4	59	12	11	2†	38	10.09	+ 1.67	1.85	34.1	14	11	4	13	n.	C. W. Hendel.
La Grand	Merced	235	10	47.0	− 1.4	69	13	25	2†	32	0.48	− 2.34	0.46	0.0	2	15	0	13	.....	Santa Fe Co.
Lemon Cove	Tulare	600	15	50.8	− 2.8	77	13	24	8	40	0.54	− 2.23	0.21	0.0	4	17	0	11	w.	G. W. Sandidge.
Lick Observatory	Santa Clara	4,209	21	38.3	− 2.2	61	13	18	1	16	3.12	− 1.24	1.07	T.	14	10	5	13	n.	The Director.
Livermore	Alameda	485	39	49.2	− 2.4	71	13	26	3†	36	1.14	− 1.13	0.47	0.0	9	12	5	11	w.	E. G. Still.
Lodi	San Joaquin	45	28	48.0	− 2.1	66	23†	26	3	30	1.76	− 0.50	0.38	0.0	8	9	10	9	se.	Ezra Fiske.

TABLE 1.—*Climatological data for February, 1910. District No. 11*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
California—Cont'd.																				
Lone Pine	Inyo	2,728	5	44.0	.....	74	28	15	1	43	0.00	.....	0.00	0.0	0	19	9	0	s.	G. F. Marsh.
Long Valley	Lassen	4,400	1	29.3	.....	58	28	− 5	2	32	0.98	.....	0.45	8.0	7	9	8	11	sw.	A. G. Evans.
Los Angeles	Los Angeles	293	33	55.6	+ 1.5	82	12	38	2	29	0.11	− 3.16	0.07	0.0	2	11	12	5	ne.	U. S. Weather Bureau.
Los Banos	Merced	121	23	49.1	− 1.2	62	12†	32	3	...	0.30	− 0.69	0.30	0.0	1	11	1	16	sw.	Southern Pacific Co.
Los Gatos	Santa Clara	600	23	48.8	− 0.8	72	13	28	3	26	2.04	− 2.62	0.97	0.0	7	15	2	11	n.	F. H. McCullagh.
Lytle Creek	San Bernardino	2,900	1	47.7	.....	77	28	27	7	36	0.61	.....	0.46	0.0	2	16	6	6	.....	W. E. Anderson.
Macdoel	Siskiyou	4,258	3	28.2	.....	57	14	− 7	2	40	1.11	.....	0.52	.....	4	7	6	15	n.	Butte Valley L'd Co.
Madeline	Lassen	5,270	1	24.5	.....	53	13	−10	2	42	1.43	.....	0.30	8.0	8	9	5	14	nw.	J. H. Williams.
Magalia	Butte	2,321	6	41.7	.....	65	15	21	2	36	11.09	.....	2.60	2.0	14	8	9	11	s.	Butte County R. R. Co.
Mammoth Tank	Imperial	257	32	57.6	− 1.3	83	13†	31	18	40	0.00	− 0.35	0.00	0.0	0	28	0	0	w.	Southern Pacific Co.
Marysville	Yuba	67	39	45.4	− 5.9	60	6†	29	5	21	2.33	− 0.34	0.70	0.0	5	16	0	12	n.	Do.
Mecca	Riverside	− 185	4	55.3	.....	84	25	25	18	43	0.00	.....	0.00	0.0	0	27	0	1	se.	A. Lunsted.
Menlo Park	San Mateo	64	32	46.9	− 3.3	64	23†	28	3	...	0.97	− 1.09	0.36	0.0	5	14	0	14	nw.	Southern Pacific Co.
Merced	Merced	173	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Santa Fe Co.
Mill Creek (1)	Amador	.....	3	40.2	.....	60	28	20	2	25	4.53	.....	1.26	3.0	11	11	9	8	s.	Cal. Gas & Electric Co.
Milton (near)	Calaveras	660	19	48.2	− 2.6	65	13	28	2	22	1.03	− 1.76	0.28	0.0	5	6	11	11	s.	J. H. Southwick.
Modesto	Stanislaus	90	38	49.4	− 0.7	68	28	28	3	...	0.50	− 0.70	0.20	0.0	4	22	0	6	.....	Southern Pacific Co.
Mojave	Kern	2,751	33	58.5	+ 9.7	74	13†	32	2	38	0.00	− 0.84	0.00	0.0	0	26	0	2	w.	Do.
Mokelumne Hill	Calaveras	1,550	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. E. Prindle.
Mono Ranch	Ventura	3,210	4	43.0	.....	71	28	18	2	39	0.00	.....	0.00	0.0	0	16	11	1	nw.	H. Lathrop.
Montague	Siskiyou	2,450	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Chambers.
Monterey	Monterey	15	45	51.4	+ 0.2	66	8†	28	2	...	1.08	− 1.44	0.46	0.0	6	16	9	3	se.	Southern Pacific Co.
Monterio	Kern	4,500	11	43.6	− 4.1	68	11	18	1	34	0.77	− 2.75	0.30	0.0	4	13	12	3	nw.	John C. Knecht.
Monumental	Del Norte	.....	5	37.7	.....	72	7	17	14	46	17.25	.....	2.37	9.0	21	5	0	23	.....	G. F. Morgan.
Mount Tamalpais	Marin	2,375	11	42.4	− 3.2	61	12	28	1	17	4.25	− 0.18	1.03	0.0	14	5	13	10	nw.	U. S. Weather Bureau.
Napa City	Napa	20	33	47.4	− 2.0	69	28	25	4	34	2.39	− 1.87	0.67	0.0	10	10	9	9	s.	Thomas Hull.
Napa (S. H.)	...do	60	32	47.6	− 1.8	65	13†	30	4	27	2.01	− 2.06	0.85	0.0	11	6	11	11	sw.	W. H. Martin.
Needles	San Bernardino	477	18	55.1	− 2.7	83	14†	27	17	43	0.00	− 0.16	0.00	0.0	0	24	3	1	w.	Santa Fe Co.
Nellie	San Diego	5,350	1	38.4	.....	59	28	14	2	21	1.40	.....	0.70	1.0	3	14	7	7	n.	C. J. Bailey.
Nevada City	Nevada	2,580	18	41.8	− 0.7	69	12	17	3	39	5.30	− 2.27	1.09	1.0	12	10	10	8	sw.	S. W. Marsh.
Newcastle	Placer	970	17	51.8	+ 4.1	79	19	31	15	37	3.58	− 1.23	0.79	0.0	12	5	19	4	nw.	George D. Kellog.
Newhall	Los Angeles	1,200	33	48.6	− 1.6	80	13†	22	16	...	T.	− 2.88	T.	0.0	0	20	0	8	ne.	Southern Pacific Co.
Newman	Stanislaus	91	21	50.0[d]	− 1.8	70	28	27	3	31	0.28	− 1.13	0.11	0.0	6	.....	.....	.....	.....	E. S. Wangenheim.
Nimshew	Butte	2,500	6	40.6	.....	65	12	17	2	31	8.66	.....	1.85	6.5	12	12	0	16	.....	Cal. Gas & Electric Co.
North Bloomfield	Nevada	3,200	13	38.1	− 6.2	68	27	18	2†	38	4.90	− 3.72	2.10	3.5	4	7	17	4	.....	W. G. Shand.
North Fork	Madera	3,000	6	42.5	.....	76	17	16	2	52	1.33	.....	0.43	1.0	6	3	20	5	w.	G. H. Shinn.
Oakdale	Stanislaus	156	16	47.2	− 1.5	63	13†	28	5	...	0.83	− 0.99	0.25	0.0	8	11	7	10	nw.	Southern Pacific Co.
Oakland	Alameda	36	34	49.6	− 0.7	65	12	34	2	22	1.64	− 1.73	0.33	0.0	11	10	6	12	sw.	Chabot Observatory.
Oceanside	San Diego	.....	.....	53.0	.....	66	13	38	1†	25	0.11	.....	0.10	0.0	2	12	12	4	w.	H. D. Brodie.
Ojai Valley	Ventura	900	4	52.2	.....	85	28	24	3	45	T.	.....	T.	0.0	0	20	7	1	sw.	W. H. Duncan.
Orland	Glenn	254	28	46.9	− 4.3	69	26	29	2†	32	1.78	− 0.39	0.95	0.0	8	13	7	8	n.	W. W. Patch.
Orleans	Humboldt	520	7	46.8	.....	67	7†	25	3	35	8.38	.....	1.30	0.0	14	6	6	16	.....	Fred T. Hale.
Oroville (near)	Butte	250	26	47.4	− 4.1	62	28	25	2	29	2.45	− 0.95	0.95	0.0	8	8	7	13	s.	E. D. Fairchild.
Palermo	...do	213	19	46.7	− 3.0	63	11†	24	4	37	2.30	+ 0.04	1.20	0.0	4	8	11	9	s.	Miss Hettie Boalt.
Palm Springs	Riverside	584	21	54.8	− 3.9	86	28	28	3	...	0.00	− 0.66	0.00	0.0	0	19	4	5	w.	Southern Pacific Co.
Pasadena	Los Angeles	827	20	52.2	− 0.2	83	12	30	2†	39	0.31	− 1.50	0.17	0.0	3	23	3	2	sw.	E. R. Sorver.
Paso Robles	San Luis Obispo	800	23	48.2	+ 0.5	75	14	18	3	42	0.28	− 2.04	0.28	0.0	1	23	4	1	nw.	Dr. F. W. Sawyer.
Peachland	Sonoma	190	14	47.4	− 3.1	74	28	23	2†	37	5.09	− 1.36	1.36	0.0	13	14	10	4	sw.	E. H. Parnell.
Pencock Camp	Tuolumne	3,750	3	42.0	.....	64	12	22	2†	26	3.55	.....	0.90	6.5	12	2	21	5	se.	Tuolumne W. P. Co.
Placerville	El Dorado	1,875	21	42.8	− 0.8	58	28	22	3	28	5.93	− 0.72	1.10	T.	14	11	15	2	sw.	A. Baring-Gould.
Point Lobos	San Francisco	250	17	50.2	+ 0.1	63	13	38	3	18	1.17	− 0.83	0.47	0.0	12	15	3	10	nw.	John Hyalop.
Point Reyes	Marin	490	18	48.6	− 0.6	64	13	38	2	18	2.11	− 0.40	0.57	0.0	12	6	11	11	nw.	U. S. Weather Bureau.
Porterville	Tulare	464	21	50.2	− 1.5	73	13	26	3†	38	0.22	− 0.86	0.10	0.0	4	10	16	2	.....	Harry E. Cowie.
Quincy	Plumas	3,400	15	33.4	− 4.6	59	12	− 2	3†	41	2.00	− 4.99	1.00	10.0	3	17	4	7	sw.	D. N. Rogers.
Red Bluff	Tehama	307	33	46.7	− 2.6	64	12	30	4	30	1.96	− 1.74	0.74	0.0	10	9	3	16	nw.	U. S. Weather Bureau.
Redding	Shasta	552	35	46.6	− 2.7	65	12	30	3	29	6.67	+ 2.45	1.12	0.0	12	15	6	7	n.	L. F. Bassett.
Redlands	San Bernardino	1,352	17	51.2	− 1.0	82	12	27	3	39	0.19	− 2.48	0.17	0.0	2	13	10	5	w.	Paul W. Moore.
Reedley	Fresno	347	10	49.3	− 1.6	71	13	27	2†	39	T.	− 1.58	T.	0.0	0	19	5	4	n.	Santa Fe Co.
Rialto (near)	San Bernardino	2,250	4	52.4	.....	78	13	34	2	23	0.70	.....	0.40	0.0	3	20	0	8	se.	So. California Edison Co.
Riverside	Riverside	851	28	52.3	− 0.4	84	12	27	3	42	0.04	− 1.75	0.02	0.0	2	18	7	3	w.	C. W. Barton.
Rocklin	Placer	249	39	48.2	− 1.9	69	25	27	5	29	2.93	− 0.03	0.62	0.0	12	12	7	9	s.	Southern Pacific Co.
Rohnerville	Humboldt	75	7	47.2	.....	61	11	25	2	33	7.81	.....	2.35	0.0	10	7	7	14	n.	Dr. R. Callahan.
Sacramento (1)	Sacramento	71	33	48.1	− 2.1	68	28	34	3	22	0.83	− 2.32	0.23	0.0	9	11	8	9	se.	U. S. Weather Bureau.
Sacramento (2)	...do	35	57	48.4	− 2.1	66	28	29	3	26	1.18	− 1.57	0.29	0.0	10	13	7	8	n.	S. H. Gerrish.
St. Helena	Napa	255	2	46.6	.....	71	28	26	4	36	3.57	.....	1.08	0.0	9	12	0	16	.....	B. F. Kettlewell.
Salinas	Monterey	40	36	50.2	− 0.1	75	23	29	2	34	0.69	− 1.47	0.19	0.0	8	19	8	1	w.	Miss E. Ruth Abbott.
San Bernardino	San Bernardino	1,054	18	51.6	− 1.7	86	12	25	3	49	0.08	− 2.77	0.04	0.0	2	11	15	2	sw.	Dr. A. K. Johnson.
San Diego	San Diego	93	39	52.9	− 1.7	72	12	37	2	22	0.19	− 2.07	0.15	0.0	3	20	5	3	ne.	U. S. Weather Bureau.
San Francisco	San Francisco	207	39	50.4	− 0.9	64	12	38	3	19	2.09	− 1.60	0.64	0.0	13	11	7	10	w.	Do.
San Jacinto	Riverside	1,550	17	52.6	+ 1.3	87	12	25	2†	50	0.24	− 0.91	0.24	0.0	1	18	4	6	w.	E. T. Tanner.
San Jose	Santa Clara	95	35	48.6	− 2.0	72	13	25	3	32	0.83	−1.32	0.42	0.0	12	12	7	9	nw.	U. S. Weather Bureau.
San Leandro	Alameda	48	15	48.3	− 6.4	67	13	26	2	28	1.50	− 2.32	0.33	0.0	8	12	9	7	w.	E. B. Sanford.
San Luis Obispo	San Luis Obispo	201	15	52.4	− 0.1	77	12	27	3	35	0.43	− 3.35	0.26	0.0	4	5	14	9	nw.	U. S. Weather Bureau.
San Mateo	San Mateo	22	36	50.5	− 0.9	68	13†	32	3	...	1.46	− 2.58	0.65	0.0	9	14	5	9	nw.	Southern Pacific Co.
San Miguel	San Luis Obispo	616	23	50.6	+ 1.4	70	13	24	3	...	0.05	− 1.62	0.05	0.0	1	4	19	5	nw.	Do.
San Miguel Island	Santa Barbara	500	.....	52.4	.....	70	12†	38	2	24	1.40	.....	0.80	0.0	3	13	9	6	sw.	Capt. W. G. Waters.
Sanger	Fresno	371	21	50.5	− 2.3	62	22	43	2	...	0.00	− 1.44	0.00	0.0	0	28	0	0	.....	Southern Pacific Co.
Santa Barbara	Santa Barbara	130	26	53.1	− 1.7	86	28	31	2	37	0.08	− 3.04	0.06	0.0	2	19	5	4	w.	George W. Russell.
Santa Clara	Santa Clara	90	21	49.2	− 2.5	72	13	23	3	37	0.86	− 1.38	0.36	0.0	9	14	4	10	nw.	Santa Clara College.
Santa Cruz	Santa Cruz	20	37	48.8	− 3.9	72	12†	26	3	35	2.62	− 1.43	0.90	0.0	5	19	3	6	n.	W. R. Springer.
Santa Magarita	San Luis Obispo	996	21	51.9	+ 5.4	68	27	20	5	...	0.08	− 3.82	0.08	0.0	1	26	1	1	nw.	Southern Pacific Co.
Santa Maria	Santa Barbara	220	22	51.8	− 0.8	78	12	29	2†	42	0.53	− 1.48	0.18	0.0	4	12	1	15	nw.	L. E. Blochman.
Santa Monica	Los Angeles	110	25	51.4	− 3.2	76	12	36	3	33	T.	− 2.36	T.	0.0	0	15	9	4	w.	N. D. Ingham.
Santa Rosa	Sonoma	181	21	47.8	− 2.7	68	28	23	4	33	3.75	− 0.11	1.04	0.0	2	11	8	9	sw.	M. L. McDonald, jr.
Selma	Fresno	311	24	46.2	− 4.6	66	24	28	2†	...	0.14	− 0.82	0.09	0.0	2	13	15	0	nw.	Southern Pacific Co.
Shasta	Shasta	1,049	14	38.5	+ 0.2	65	21	20	3	35	7.90	− 1.78	2.98	1.8	8	10	9	9	nw.	Dr. T. J. Edgecomb.
Sierra Madre	Los Angeles	1,400	13	52.9	− 2.0	78	12†	34	2	32	0.28	− 4.08	0.16	0.0	3	16	5	7	s.	Miss A. E. Carter.
Sierraville	Sierra	5,000	.....	27.4	.....	56	13†	−12	3†	42	3.30	.....	1.05	22.5	5	12	4	12	se.	C. D. Johnson.
Sisson	Siskiyou	3,555	21	33.2	− 3.5	53	12	4	3	36	1.94	− 1.54	1.10	10.5	5	6	12	10	s.	Southern Pacific Co.
Soledad	Monterey	188	36	54.0	+ 3.8	79	15	36	24	...	0.00	− 1.40	0.00	0.0	0	21	3	4	n.	Do.
S. E. Farallon	San Francisco	30	7	49.4	.....	57	13	40	1	11	1.71	.....	0.49	0.0	12	6	15	7	nw.	U. S. Weather Bureau.
Sonora	Tuolumne	1,825	22	45.2	.....	64	13	25	2	26	2.81	− 3.33	0.70	0.0	7	11	14	3	sw.	Charles P. Jones.
Stirling City	Butte	3,525	6	36.6	.....	62	13	17	6	30	5.20	.....	1.80	21.0	7	13	7	8	se.	Butte County R. R. Co.
Stockton (S. H.)	San Joaquin	23	39	46.8	− 3.2	60	13†	28	2†	25	1.47	− 0.71	0.46	0.0	8	13	8	7	w.	State Hospital.
Storey	Madera	296	10	45.8	− 1.6	68	23	26	2†	33	0.50	− 1.43	0.50	0.0	1	22	1	5	n.	Santa Fe Co.
Suisun	Solano	20	30	53.2	− 1.7	70	16†	40	10†	....	1.26	− 1.38	0.37	0.0	6	19	1	8	w.	Southern Pacific Co.
Summerdale	Mariposa	5,270	14	37.6	− 0.9	66	12	10	2	31	2.93	− 5.43	1.12	6.0	8	3	11	14	s.	J. H. Lowry.

TABLE 1.—*Climatological data for February, 1910. District No. 11*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
California—Cont'd.																				
Summit	Placer	7,017	37	28.4	− 0.4	46	12†	2	2	20	5.10	− 1.91	1.20	51.0	9	16	1	11	sw.	Southern Pacific Co.
Susanville	Lassen	4,175	21	28.4	− 6.0	56	28	− 8	3	31	0.90	− 1.96	0.25	7.0	5	6	20	2	sw.	James Branham.
Tamarack	Alpine	8,000	4	24.4	.....	53	28	−25	3	57	3.86	.....	1.20	46.0	9	13	4	11	sw.	William Bennett.
Tehachapi	Kern	3,964	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Southern Pacific Co.
Tehama	Tehama	220	39	55.6	+ 4.6	74	13†	34	2†	.....	2.53	+ 0.12	0.85	0.0	9	10	0	18	s.	Do.
Three Rivers	Tulare	870	....	48.2	.....	74	13	26	3	34	0.89	.....	0.48	0.0	6	10	13	5	sw.	E. D. Barton.
Towle	Placer	3,704	24	38.2	− 3.6	65	12	15	2†	45	7.60	− 0.20	2.40	9.0	9	13	1	14	s.	Southern Pacific Co.
Tracy	San Joaquin	64	30	45.9	− 4.6	60	27	26	3†	.....	1.20	+ 0.04	0.34	0.0	8	12	6	10	sw.	Do.
Ukiah	Mendocino	620	17	46.4	− 1.3	68	12	21	2†	36	4.24	− 0.88	1.00	0.0	12	10	10	8	nw.	Dr. George McGowen.
Upland	San Bernardino	1,750	13	50.1	− 1.8	81	12	28	2†	41	0.56	− 3.07	0.40	0.0	2	17	3	8	w.	A. P. Harwood.
Upper Lake	Lake	1,350	25	44.8	− 2.7	63	12	21	2	35	3.38	+ 0.06	0.64	T.	11	16	6	6	nw.	C. M. Hammond.
Vacaville	Solano	175	22	48.1	− 3.1	69	28	26	2	32	1.66	− 1.78	0.40	0.0	10	7	15	6	sw.	G. O. Coburn.
Valley Springs	Calveras	673	21	49.6	− 1.3	65	23	30	2	....	1.93	− 0.71	0.68	0.0	8	6	13	9	w.	Southern Pacific Co.
Visalia	Tulare	334	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Santa Fe Co.
Warner Springs	San Diego	3,165	2	48.2	.....	80	12	24	6	43	0.25	.....	0.16	0.5	2	.....	.....	.....	.....	Mrs. E. F. Sanford.
Wasco	Kern	336	10	39.8	− 9.8	64	13†	20	9†	44	0.00	− 1.43	0.00	0.0	0	23	2	3	.....	Santa Fe Co.
Watsonville	Santa Cruz	23	14	53.0	+ 0.7	76	12†	29	1†	40	1.73	− 1.65	0.44	0.0	8	7	15	6	sw.	Spreckels Sugar Co.
Westley	Stanislaus	90	21	47.4	− 5.0	64	23	28	3	....	0.35	− 0.72	0.20	0.0	2	15	0	13	n.	Southern Pacific Co.
Wheatland	Yuba	84	23	47.1	− 1.6	61	25	27	3	26	2.37	− 0.19	0.72	0.0	11	10	6	12	se.	Wm. Lumbard.
Willows	Glenn	136	31	46.6	− 2.2	77	23	27	4	34	1.61	− 0.32	0.64	0.0	7	11	2	15	n.	M. T. Harrington, jr.
Yosemite	Mariposa	3,945	6	36.0	.....	64	28	5	4	41	2.80	.....	0.50	21.0	9	15	4	9	.....	C. W. Tucker.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 11, California.*

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Oregon.																																	
Klamath Agency	Klamath									.45		.30											.85		1.50								3.10
Klamath Falls	do									.21	.11	.05						.12	.25	.27			.18		.54	.08	.04	.14	.20				2.19
Lakeview	Pitt										.40			.45						.95		.40							.10				2.30
Long Valley	do																																
Merrill	Interior Drainage											.05				T.				.05			.10			.02			.02				0.24
Yonna	do									.06	.08	.10			.14				.20	.08			.16	.04	.58	.06	.05	.07	.12				1.74
California.																																	
Aguanga	Coast		.60																		.12												0.72
Alameda	do						T.	.10		.10					.10			.10	.50				.10	.10	.10		.05						1.25
Alturas	Sacramento	.30						.06		.06	.02	.01			.22				.11	.10	T.	T.	.04		.10	.13	.03		.09				1.28
Anderson	do						T.	.59		.87									.52	.42			.80	.46	1.05	.07		.03	.36				5.17
Angles Camp	San Joaquin	.18						1.21		T.									1.21	.20			.70		.30				.05				3.85
Angiola	do																																0.00
Antioch	do						T.			.70									.23				.10		.15								1.18
Aptos	Coast							.43		.21									.07	.33			.08	.46	.06	.24			.05				1.93
Arrowhead Springs	do	.12																			.36												0.48
Auburn	Sacramento	.50						.60	.30	.25	.10				.40				.10	1.35			.10	.50		.55			.15				4.90
Avalon	Ocean																			T.	.09			T.									0.09
Azusa	Coast	.09																	.18														0.27
Bagdad	Desert																																0.00
Bakersfield	San Joaquin	.18																								.04							0.22
Barstow	Desert																																0.00
Bear River	San Joaquin																																
Bear Valley (1)	Sacramento	.65					1.35	.15	.63						.34				2.10	.15			1.34	.18	1.48			.40					8.77
Bear Valley (2)	San Joaquin																				.36					.07							0.43
Bear Valley Dam	Coast	.47																		.10													0.57
Ben Lomond	do						1.62												.62				1.00	.50	.20				T.				3.94
Berkeley	do						.16	.36		.29					.04				.23				.21		.50	.02		.04					1.85
Big Bar	Sacramento																																
Biggs	do								.75	.25									.25		.25		.50	.25									2.25
Bishop	Owens																																
Bishop Creek	do																																
Blocksburg	Coast					T.	.36		T.	.90				T.	.60	.06		T.	1.69	.69			1.28	.30	2.85	.30	.26	.55	.81				10.65
Blue Canyon	Sacramento	.80						1.00		.40					.20				.10	.50			.40	.40	T.	1.50			.30				5.60
Blythe	Desert																																0.00
Boulder Creek	Coast							2.00		.40									.09	.52			.25	.74		.22							4.22
Bowmans Dam	Sacramento	.10						.64	.15	.34	.05				.05		.30		.14	1.04	.10	.42	.50	.08	1.90	.15			.48				6.44
Branscomb	Coast	.90			T.		.30	.45	.01	1.31					.91				2.25	1.33			.44	.63	4.60	.49		.29	.31				13.36
Brawley	Desert																																0.00
Brush Creek	Sacramento	.60						1.45		.68					.31				.33	1.55	.04		1.40	.30	1.53			.03	.28				8.50
Burney	do	.20													T.					.30			.50	.50	1.55	.90							3.95
Butte Creek House	do																																
Butte Valley	do	.26							.32	.24					.34				.09	.53	T.		.81	.17	1.12	.20		.02	.05				4.15
Calexico	Desert																																0.00
Caliente	San Joaquin																																0.00
Calistoga	Coast	.10						1.37	.29	.40					.06				.09	.14			.44	.10	.69	.58							4.26
Campbell	do						10	.20		.06					.02				.02				.01		.13								0.54
Campo	do	.15																			.51												0.66
Camptonville (near)	Sacramento	.85						2.45	.70	.72					.26				.32	2.00			2.88	.32	.61	.76			.41				12.28
Cedarville	Mountain Lakes							.05		.18	T.				.40				.20	.27					.12	.21	.10	T.	.28				1.81
Chester	Sacramento																																
Chico	do	.09						1.00		.29					.01				.06	.04			.65	T.	.20	.10		T.	.05				2.49
Chico (near)	do							1.30		.28									.09				.71	.10	.12			.07	T.				2.67
China Flat	Coast				T.		T.		T.	.82					.96			T.	1.14				1.19	.21	2.04	.27							6.63
Chino	do		.10																														0.10
Cisco	Sacramento	.60						.80	.10	.50					.30	.20				.80			.20	.40		.40			1.00				5.30
Claremont	Coast	.01	.06													.03				.35													0.45
Clear Lake	Klamath																																
Cloverdale	Coast						.35	.68	.72						.05				.05	.22			.86	.16	.88	.12		.03	.11				4.23
Colfax	Sacramento	.60						1.50	.20	.60					.50			.05	T.	1.05			.20	.50		.70			.10				6.00
Colgate	do	.50						.76	.56	.35	.10				.23				.08	1.00			.25	.65	.11	.74			.06				5.39
Colusa	do							.95		.15										.07			.27	.07									1.51
Corning	do							.95	.06	.33												.60		.12	.05								2.11
Corona	Coast	.04																			.06												0.10
Crockers	San Joaquin						1.35								T.				.33	.55			.19		.41				.08				2.91
Cuyamaca	Coast	.45																		.85	.02												1.35
Daunt	San Joaquin	1.80						.07								.23				.38	.01		.05			.16							2.70
Davisville	Sacramento							.09		.09	.01								.15	.02			.02	.01	.01								0.40
Deer Creek	do	.56						1.00	T.	.58					.38				.26	2.00	T.		1.02	.14	.33	.93			.20				7.40
Delta	do								.10	.95					.15						.80	.20	2.70	1.32	.22			.21	.20				6.85
Denair	San Joaquin							.05		.04	.01							.10	.20				.10			.05							0.55
Descanso	Coast																																
Dinuba	San Joaquin																																
Dobbins	Sacramento	.48						1.52	.01	.49		.01			.18				.15	.82			.93	.09	.20	.50			.08				5.55
Dorris	Klamath																																
Downieville	Sacramento	.73					.88			.50					.32	.07			.19	1.62	.03		1.43	.20	.47	.73			.26				7.43
Dudleys	San Joaquin	.17						.84		T.					.10				.19	.80			.29			.18			.06				2.63
Dunnigan	Sacramento							1.05															T.	T.									1.05
Dunsmuir	do							.10		.33					.78					.88			.30	1.13	2.16	.73			.29				6.70
Durham	do						T.	1.06		.30					T.				T.				.82		.21								2.39
Dyerville	Coast									.25	1.00			.75					1.00				.25	.75	1.25		.75	1.00	.50				7.50
Edgewood	Klamath													.03	.02						.34		.06	.39					.41				1.25
Edison	San Joaquin	.22																		.07						.07							0.36
El Cajon	Coast	.07																		.08	.20												0.35
Electra	San Joaquin	.42						1.21		.08					.08					1.30			.60			.50							4.19
Elsinore	Coast	.06																			.08												0.14
Emigrant Gap	Sacramento	.20					1.20		.50						.30	.10			.20	1.20			.50	.20		.25	.70							5.35
Escondido	Coast	.09																		.40													0.49
Eureka	do				.01		.04		.18	.09	.07	.03		.32	.32			.43	2.33	.10		.03	.21	.14	1.37	.31	T.	.80	.56				7.34
Fairmont	do	T.																															T.
Farmington	San Joaquin							.54		.11										.34			.74	.24		.10			.19				2.26
Felton	Coast							.89	.12	.24									.08	.61			.12	.73	.05	.21							3.05
Firebaugh	San Joaquin										.02					.04				.07				.02		.05							0.20
Folsom	Sacramento	.28						.30	.42	.14	.01				.08				.10	.60			.04	.32		.26			.24				2.79
Fordyce Dam	do	.34						1.02	T.	.58					.50				.36	1.30	T.		.90	.16	.72	1.00		.10	.52				7.50
Fort Bragg	Coast						.65	.15	1.13									.30	1.49			.75	.10	.60	.91	.03		.72	.02				6.85
Fort Ross	do						.55	.52		1.22					.17				.37	.44			1.82	.96	1.63	.07		.16	.28				8.19
Fouts Springs	Sacramento						T.	.60		.51					.30				T.	.67	.10		.56	T.	.36	T.		T.					3.10
Fredalba	Coast	T.																			.90												0.90
Fresno	San Joaquin	.06					.01												.02	.09			.01		.02								0.21
Fruto	Sacramento							.70		.16										.10			.35	.10									1.41
Galt	San Joaquin							.35	.32	.12					T.				.05	.25	T.	T.	T.	.30	T.	.28			.05				1.72
Georgetown	do	.69						1.08	.52	.47	.05				.40				.20	2.03	.06		.27	.95	T.	1.04			.12				7.88
Gilroy	Coast							.55	.12	.05	.03				.04			.04	.15					.12		.08							1.18

TABLE 2.—*Daily precipitation for February, 1910. District No. 11*—Continued.

Stations.	River basins.	Day of month.																												Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
California—Cont'd.																																	
Gilta	Coast																																
Glendora	...do																			.13													0.13
Glen Ranch	...do		.27																														0.27
Glennville	San Joaquin																																
Glenwood	Coast						1.12		.26										T.				1.16		.24			T.					2.78
Gold Run	Sacramento	.50						.20	.10	.40				.48					T.	2.05		.04	.40	.80		1.10		.10					6.17
Gonzales	Coast									.05										.30	.03					.10							0.48
Grass Valley	Sacramento	.63						.88	.02	.59					.33				.18	1.47			1.02	.03	.20	.85		T.	.12				6.32
Greenville	...do	.36						.28	T.	.24					.46					.45			.62	.07	.91	.38							3.75
Gridley	...do							.98		.16									.13	.11					.04			.05					1.87
Groveland	San Joaquin	.27						1.20							.13				.21	1.14			.40			.32		.06					3.73
Guinda	Sacramento							.77	.05									T.				.33	.03	.06									1.24
Hanford	San Joaquin																																0.00
Head Dam	Sacramento	.75						1.38	.04	.68					.32				.24	1.78			1.30	.17	.37	1.02		.13					8.18
Healdsburg	Coast						.27	.58		.70					.03				.04	.13			.95	.37	.70	.10			.01				3.88
Hearst	...do				1.12	.30	1.00	1.25							.37	.37	.25	.10								.12	1.00	.25					6.13
Heber	Desert																																0.00
Helen Mine	Coast						2.25	2.05		1.53									.50	1.88			.94	1.00	3.21	.56		.70	.32				13.94
Hesperia	Desert	.25																															0.25
Holcomb	Coast	.17	.13																														0.30
Hollister	...do	.07						.20	.02	.05					.03					.13	.02			.11		.07							0.70
Hornbrook	...do										T.													.50		T.	T.						0.50
Hot Springs	San Joaquin	.40																		.26	.30	.02					.10						1.08
Hullville	Coast	T.					.24	1.01		.83					.27				.23	.64			.83	.21	1.09	.13		.05	.07				5.60
Idyllwild	...do	.12																		.11	.37												0.60
Independence	Owens													T.									T.										T.
Indio	Desert																																0.00
Inskip	Sacramento	.68						1.22		.80					.42				.62	1.60	.30		1.56	.67	2.55	.42		T.	.52				11.36
Ione	San Joaquin	.15						.47	.08	.12										.82				.24		.20			.20				2.28
Iowa Hill	Sacramento	.75						.48							.29				.21	1.66			.84	T.	.08	.89			.11				5.31
Isabella	San Joaquin																			.04													0.04
Jacksonville	...do	.22						.42	.26	.02										.80	.24					.08			.06				2.10
Jamestown	...do	.20						.60											.35	1.00			.40			.15			.05				2.75
Jenny Lind	...do	.10						.50	.15	.08					.05				.04	.44				.30					.35				2.01
Johnsville	Mountain Lakes																																
Jolon	Coast																						.14			.03							0.17
Julian	...do		.20																		.50												0.70
Kennedy Mine	San Joaquin																																‡3.28
Kennett	Sacramento	.20						.30	.10	.20	.08									1.72				.80	1.20	3.44			.46				8.50
Kentfield	Coast						.71	.56		.62					.04				.04	.37			1.76	.64	.44	.31							5.49
Kernville	San Joaquin																																0.00
King City	Coast																																0.00
Knights Landing	Sacramento							.66	.02	.16	.02				T.				.10	.02			.14	.10	.04	.12			T.				1.38
Knob	...do	1.05	.16			1.00	.09	.18	1.07	.97	.42	.63		.24					1.04	.97	.64	.34	.46	.31	1.04			.09				10.70
La Grange	San Joaquin							.26											.11	.61			.20				.07						1.25
Lake Eleanor	...do	.30						1.25		.05					.18				.18	.88			.62			.58							4.04
Lakeside	Coast																					1.37											0.37
La Porte	Sacramento	.55						1.14	.02	.54					.38				.30	1.36	.10	T.	1.10	.73	1.85	1.43	T.	.05	.54				10.09
Lathrop	San Joaquin							.38	.42	.08										.28				.12		.16							1.44
Laurel	Coast							1.65		.25										.30				.95	.15	.20							3.50
Laytonville	...do						.65			1.07				.16					1.56		1.41			1.62	1.74		.40						8.61
Le Grand	San Joaquin														.02					.46													0.48
Lemon Cove	...do	.21					.12												T.	.10			T.		.11								0.54
Letter Box	Sacramento																																
Lick Observatory	Coast	.04						1.07		.28					.06					.93	.03			.27	.01	.28			.15				3.12
Livermore	...do	.04					.10	.47		.10									.17	.10			.05		.10		T.	.01				1.14
Lodi	San Joaquin						.16	.23		.13									.22	.29			.38		.26		T.	.09				1.76
Lone Pine	Owens																																0.00
Long Camp	San Joaquin	.28						1.34							.18			.43	.46	.08		.54			.53			.08				3.92
Long Valley	Mountain Lakes	.45						.07							.09	.09			T.	.11			.11	T.	.06							0.98
Lordsburg	Coast		.36																		.30												0.66
Los Alamos	...do						.10													.08			T.	.05									0.23
Los Angeles	...do	.07													T.					.04													0.11
Los Banos	San Joaquin																						.30										0.30
Los Burros Mine	Coast							.80								.04				.54				.71									2.09
Los Gatos	...do						.32	.97		.14					T.				.03	.20			.33	T.	T.	.05							2.04
Los Vaqueros	...do																																0.00
Lowe Observatory	...do																			.14													0.14
Lytle Creek	...do	.46																		.15													0.61
McCloud	Sacramento																																
Macdoel	Klamath														.52			.42							.15	.02							1.11
Madeline	Mountain Lakes							T.		.10	T.				.25	T.	T.	T.	.25	.30	T.	.20	.25	.06	.02	T.			T.				1.43
Magalia	Sacramento						1.12	.38	.76	.10				.24				.15	1.92	.36		.92	.74	2.60	1.48			.28	.04				11.09
Mammoth Tank	Desert																																0.00
Mariposa	San Joaquin	.20						.40											.17	.57	.14			.21		.14							1.83
Marysville	Sacramento						.36	.70		.70									.27				.30										2.33
Mecca	Desert																																
Melones	San Joaquin	.16						.64	.70	.01						T.			.02	.60	.22		.54			.28			.06				3.23
Menlo Park	Coast							.36							.30				T.		.18		.11		.12								0.97
Merced	San Joaquin																																
Merced Falls	...do						.07	.05	.01	T.					.02			.01	.44	.10			.10		.06								0.86
Mesa Grande	Coast	.30																		1.02													1.32
Mill Creek (1)	San Joaquin	.51						1.26		.23					.28				.18	.60	.04		.71	.03		.53		T.	.16				4.53
Mill Creek (2)	Coast	.45																		.46	.09												1.00
Mills College	...do	.04					.16	.28		.32					.09				.15	.17			.27			.45			.06				1.99
Milo	San Joaquin																									.38							0.38
Milton (near)	...do							.28		T.					T.				.10	.23			.27		T.			.15					1.03
Modesto	...do							.20		.10									.10						.10								0.50
Mojave	Desert																																0.00
Mokelumne Hill	San Joaquin																																
Mono Ranch	Coast																																0.00
Montague	Klamath																																
Monterey	Coast							.31		.14					.06					.46						.06			.05				1.08
Monterio	San Joaquin	.15													.02								.30		.30								0.77
Montgomery Creek	Sacramento							.33		.97					.23				.16	1.40		.36		.29	4.11	1.59			.45				9.85
Monumental	Coast				.60				1.18	.10	.28	.12		1.50	.08	.05	.10	1.50	2.00	.20	.05	.95	.82	2.37	1.75	.10	1.04	1.65	.81				17.25
Morena Dam	...do																																
Mount Tamalpais	...do						.38	.04	.13	.87					.15				.81	.22		.02	.60	.22	.78	.01		.01	.01				4.25
Mount St. Helena	...do							1.38	.17		1.00								.63					1.10		2.44		.20					6.92
Napa City	...do	.05					.23	.67		.35						T.			.10	.27		.40	.05	.03	.24		T.						2.39
Napa (S. H.)	...do	.04						.85	.01	.25				T.					.11	.17		.21	.08		.07	.20			.02				2.01
Needles	Desert																																0.00
Nellie	Coast	.30																		.70	.40												1.40
Nevada City	Sacramento	.59						.82	.01	.57					.25				.11	1.09			.90	.03	.20	.65		T.	.08				5.30

TABLE 2.—*Daily precipitation for February, 1910. District No. 11*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
California—Cont'd.																															
Newcastle	Sacramento	.41						.79	.03	.22					.17				.23	.70			.41	.02	.02	.37			.21				3.58
Newhall	Coast	T.																															T.
Newman	San Joaquin							.11	.04	.04									T.	.04			.02			.03			T.				0.28
Nimshew	Sacramento	.45						1.85		.08					.12					1.50	.06		1.27	.32	1.65	.50		.01	.25				8.66
North Bloomfield	do							.90										1.00				.90			2.10							4.90
North Fork	San Joaquin	.20						.28							T.				.09	.43			.19			.14							1.33
North Lakeport	Coast						.91		.57	.03					.24				.36				.60	.25	.27	.04		.06	.02				3.35
Oakdale	San Joaquin	.02						.15		.04									.06	.25				.20		.03			.08				0.83
Oak Grove	Coast	.07																			.13												0.20
Oakland	do	.02					.13	.20		.33					.06				.09	.13			.29		.10	.25			.04				1.64
Oakville	do							1.13	.08	.38	.07				.07				.06	.28			.28			.22							2.57
Oceanside	do	.01																		.10													0.11
Ojai Valley	do	T.																															T.
Orland	Sacramento						.95		.14	.03								T.	.12	.05		.46	T.	.02	.01							1.78
Orleans	Klamath				.11				.57		.08			.82	.11			.73	1.03			.78	.14	1.30	.93		.28	1.07	.43			8.38
Oroville	Sacramento						.95	.08	.22										T.			.06	.80	.12	.13			.09				2.45
Ozena	Coast																		.60														0.60
Palermo	Sacramento							1.20		.25													.70		.15								2.30
Palm Springs	Desert																																0.00
Parkfield	Coast							.15	.04											.14			.10										0.43
Pasadena	do	.17																		.12	.02												0.31
Paso Robles	do							.28																									0.28
Peachland	do						.27	.85	.01	.86	.02				.02				.07	.37			1.36	.49	.78	.08			.01				5.09
Penstock Camp	San Joaquin						.80	.20	.05	.10					.15			.05	.90	.21			.47		.47	.05		.10					3.55
Peyton	Sacramento						.31		.16		.03			.04				.08	.04						.23								0.89
Phoenix Dam	San Joaquin	.23						.80		T.					.12					.18	.97		.38			.20							2.88
Pilot Creek	Sacramento	1.60						1.46		.87					.44				.30	1.98	.18		.94		.46	.03			.15				9.31
Pine Crest	Coast																																
Pittville	Sacramento																								2.00								2.00
Placerville	do	.42						1.00	.44	.30	.01				.22				.16	1.10	.09		.06	.51	.57		.05		.10				5.03
Point Lobos	Coast	.04						.02		.47					.06				.04	.03			.21	.02	.07	.16		.02	.03				1.17
Point Loma	do		.04							.02											.13								.02				0.21
Point Reyes	do						.39	.06	.21	.36									.13	.01		T.	.48	.08	.21	.01		.16	.01				2.11
Pollasky	San Joaquin	.06																								.20							0.26
Porterville	do						.07													.04	.10					.01							0.22
Priest Valley	Coast							.60															.30										0.90
Quincy	Sacramento							.80		.20															1.00	T.							2.00
Red Bluff	do						.29	.45	.08	.14									.09	T.			.46	.07	.26			.03	.09				1.96
Redding	do						.06	.31	.01	.94									.43		.97		1.10	.74	1.12	.57		.02	.40				6.67
Redlands	Coast	.17																			.02												0.19
Reedley	San Joaquin	T.																					T.										T.
Represa	Sacramento	.32						.33	.54	.17					.13				.10	.64			.10	.30		.33		.27					3.23
Rialto (near)	Coast	.14													T.	.16				.40													0.70
Rio Vista	Sacramento	.01						.34	.04	.08	.02									.34			.10	.26	.02	.20							1.41
Riverside	Coast	.02																			.02												0.04
Rocklin	Sacramento	.29						.35	.02	.18	.62				.07				.11	.50			.05	.24		.30			.20				2.93
Rohnerville	Coast						T.			.40		.05			.84			2.35	1.00			.34	T.	1.52	.10		.16	1.05				7.81
Round Valley	Owens																																
Sacramento (1)	Sacramento						.20	.03	.01	.11					T.				.13	.02			.20	T.	.10	T.		.03					0.83
Sacramento (2)	do						.10	.29		.13									.16	.08			.25	.01	.10	.02		T.	.04				1.18
Saint Helena	Coast							1.08	.16	.41					.05						.26		.67	.14	.23	.57							3.57
Salinas	do							.19	.09	.08					.03				.06	.11				.03		.10							0.69
San Bernardino	do	.04																		T.	.04												0.08
San Diego	do	.04																		.10	.05					T.							0.19
San Francisco	do						.46	.18	.05	.46					.08				.30	.05		T.	.19	.01	.26	.01		.03	.01				2.09
San Jacinto	do																				.24												0.24
San Jose	do						.30	.12		.08					.04				.10	.01	.01		.01	.08	.04			.03	.01				0.83
San Leandro	do	.23					.15	.33	T.							T.			.15	.10			.22	T.	.10	.22		T.					1.50
San Luis Obispo	do						.02	.10												.26			.05										0.43
San Mateo	do							.65		.22					.07				.06	.20			.11	.05		.09			.01				1.46
San Miguel	do																		T.	T.			.05			T.							0.05
San Miguel Island	Ocean							.50												.80					.10								1.40
Sanger	San Joaquin																																0.00
Santa Ana River	Coast	.55																		.42													0.97
Santa Barbara	do	.02						.06																									0.08
Santa Clara	do						.16	.36		.08					.04				.09		.01		.01			.09		T.	.02				0.86
Santa Cruz	do						.50		.40										.50				.90		.32								2.62
Santa Margarita	do							.08																									0.08
Santa Maria	do	.06						.12												.14			.18										0.50
Santa Monica	do	T.																		T.													T.
Santa Rosa	do	.10					.26	1.04	.01	.51									.09	.16			.78	.23	.22	.29			.06				3.75
Sausalito	do						.58	.77												.55			.59			.58		.07					3.14
Selma	San Joaquin	.05																		.09													0.14
Seven Oaks	Coast	.30																		.05													0.35
Shasta	Sacramento					.07													.38		1.57	T.	.85	1.31	2.98	T.	T.	.28	.46				7.90
Shingle Springs	San Joaquin							1.30	.10	.20										1.70				.60	.56								4.46
Sierra Madre	Coast	.16													T.					.08	.04												0.28
Sierraville	Mountain Lakes	.75						.90							.30								.30		1.05								3.30
Sisquoc Ranch	Coast							.40													.05												0.45
Sisson	Sacramento								.20					.21									.18	1.10	.25								1.94
Soledad	Coast																																0.00
Sonora	San Joaquin	.29						.70							.14				.46	.65			.42			.15		T.					2.81
SE. Farallon	Ocean						.29		.27	.22					.01			T.	.16	.01	T.		.33	.03	.18	.01		.19	.01				1.71
Spreckels	Coast							.19		.09										.14	.03					.08							0.53
Squirrel Inn	do	T.																		T.	.76	T.	T.										0.76
Stirling City	Sacramento						.70	.25		.30													.80	1.00	1.80				.35				5.20
Stockton (S. H.)	San Joaquin							.46		.11					.04				.17	.24			.19	.11		.15							1.47
Storey	do																						.50										0.50
Suisun	Sacramento							.37		.21									.15				.18		.21	.14							1.26
Summerdale	San Joaquin	.30						1.12							.10	.03			.12	.53			.38			.35							2.93
Summit (1)	Sacramento	.80				.20		1.20		.60					.10								.60	.80	.70			.10					5.10
Summit (2)	Coast	.08																															0.08
Surrey	do	T.																			.17												0.17
Susanville	Mountain Lakes	.25													.15				.08				.22		.20								0.90
Tamarack	Sacramento	.80						1.20		.27					.24				.26	.30			.35		.26	.18							3.86
Tehachipi	San Joaquin																																
Tehama	Sacramento						.80												.85	.10		.05	.10	.50	.09	.03			.03				2.55
Three Rivers	San Joaquin	.48						.21							.01					.06			.03			.10							0.89
Towle	Sacramento	1.63					.60	T.		.20		T.		T.				T.	2.40	.38			T.	.95	.05	1.15			.24				7.60
Tracy	San Joaquin							.32	.34	.06					.05				.10	.05				.06		.22							1.20
Tulare	do	.06																			.07					T.							0.13
Tustin (near)	Coast		T.																		.07												0.07
Ukiah	do						.17	1.00		.80					.25				.26	.30			.46	.08	.60	.12	T.	.12	.08				4.24
Upland	do	.16																		.40													0.56

TABLE 2—*Daily precipitation for February, 1910. District No. 11*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
California—Cont'd.																																	
Upper Lake	Coast						.30	.64		.50					.16				.12	.24			.54	.10	.54	.14			.11				3.39
Upper Matole	do					.01		.47		.98			.03		.75	.28			1.05	1.95	.03		.95	.35	3.95	1.10		.05	1.10				13.05
Vacaville	Sacramento						.40	.03	.09	.04								.11	.22			.21	.26	.05	.25							1.66
Valley Springs	San Joaquin							.68	.07	.10					.10					.45	.01			.29		.23							1.93
Ventura	Coast																																
Visalia	San Joaquin																																
Warner Springs	Coast	.16																		.09													0.25
Wasco	San Joaquin																																0.00
Watsonville	Coast						.32	.22	.09									.05	.44				.35		.25			.03				1.75
Weaverville	Sacramento																																
Weitchpec	Klamath				.12					1.00		.20			1.30			.06	2.68	.91			1.02	.35	2.82	.93	.01	1.09	1.58				14.07
West Branch	Sacramento	.57						1.02		.63					.30	T.			.27	2.44	.28		1.34	.47	2.64	1.05		.05	.31				11.37
Westley	San Joaquin									.15																.20							0.35
West Point	do																																
West Satieoy	Coast																																0.00
Wheatland	Sacramento	.28					.09	.72		.25					.05				.18	.12			.34		.13	.16			.05				2.37
Willows	do						.12	.64		.22									.06	.06	T.		.50	T.	.01								1.61
Woodleaf	do							1.36	.27	.84					.78				.71	1.48		.36	1.96	1.04	3.27	.78	.34	.18	.27				13.64
Yosemite	San Joaquin	.30						.40						.23				.31	.50			.06	.42		.10	.48							2.80
Yuciapi	Coast		.20																				.11										0.31

TABLE 3.—*Maximum and minimum temperatures at selected stations for February, 1910. District No. 11, California.*

Date.	Lakeview, Oreg.		California.																									
			Alturas.		Barstow.		Branscomb.		Brawley.		Colusa.		Eureka.		Fresno.		Independence.		Los Angeles.		Mount Tamalpais.		Nevada City.		Porterville.		Red Bluff.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	34	9	33	0	57	30	49	24	67	39	55	37	45	33	50	34	43	20	54	46	39	28	37	28	55	37	45	37
2...	35	1	25	−13	46	21	55	20	58	36	49	34	52	29	47	26	34	16	57	38	39	29	49	20	56	38	48	35
3...	32	5	36	−13	50	18	55	22	61	32	49	25	52	33	56	29	44	16	63	39	44	29	55	17	57	26	52	30
4...	39	1	40	3	56	23	48	31	67	38	53	26	52	37	59	34	46	19	71	46	51	34	61	22	58	26	54	
5...	45	13	43	0	57	24	59	30	71	39	59	28	54	41	60	31	56	22	68	45	52	39	61	22	60	28	62	32
6...	40	14	40	7	62	24	50	30	76	31	58	35	58	41	60	36	57	20	64	44	44	36	56	22	69	31	50	32
7...	42	35	43	16	60	28	52	33	72	34	51	35	53	41	59	44	54	24	59	46	47	36	44	32	62	40	49	40
8...	45	40	44	5	60	28	47	32	72	38	51	36	57	40	55	35	50	24	67	44	46	36	49	28	59	33	54	40
9...	43	36	38	24	65	29	47	37	72	35	51	44	50	39	63	43	55	29	65	46	45	39	46	34	60	40	49	43
10...	46	40	39	16	63	30	60	30	74	39	57	36	51	38	58	45	56	30	70	46	52	39	60	27	60	41	58	38
11...	40	27	48	24	66	33	62	35	76	37	58	40	54	42	63	42	63	29	72	51	52	44	62	31	65	45	62	45
12...	32	28	48	16	72	32	69	35	81	36	61	48	51	40	66	39	63	30	82	53	61	49	69	30	69	37	64	42
13...	29	24	57	31	73	35	62	39	82	40	61	41	52	41	73	43	64	34	77	50	60	43	64	32	73	43	54	45
14...	27	24	46	21	70	41	48	31	82	45	53	47	45	37	56	39	65	30	58	50	43	31	68	33	60	48	54	39
15...	29	21	31	− 2	56	34	47	24	66	43	53	34	45	33	50	32	46	27	63	46	42	30	48	20	53	35	50	33
16...	30	26	35	13	52	24	52	32	60	32	53	34	47	31	55	29	47	24	63	40	48	34	55	19	60	33	53	35
17...	32	30	39	20	54	22	51	32	60	29	57	35	51	40	60	33	48	21	62	45	49	41	56	25	62	32	54	36
18...	30	23	38	29	58	25	47	37	64	29	56	43	50	45	56	38	52	25	63	43	45	39	49	30	62	34	48	44
19...	40	23	37	24	60	35	54	32	71	36	56	38	49	41	61	45	60	29	56	46	44	35	46	37	65	45	54	39
20...	30	27	37	24	63	38	50	30	71	45	56	41	48	42	60	38	56	28	58	44	40	34	49	28	60	43	50	41
21...	40	25	37	28	66	33	51	32	69	37	54	38	50	39	61	36	52	25	57	46	40	34	50	31	60	36	51	40
22...	37	30	40	25	70	36	50	37	75	36	54	42	55	47	55	40	63	28	58	45	45	36	45	33	62	37	47	42
23...	35	29	42	29	72	34	50	40	78	43	58	44	59	51	68	42	61	28	65	44	47	44	55	39	69	41	55	47
24...	40	35	48	35	70	36	49	46	81	42	61	51	55	47	66	47	61	31	64	46	47	44	49	43	67	45	56	51
25...	45	36	50	30	70	35	48	39	82	60	61	43	51	39	62	47	57	43	71	51	45	38	54	41	65	42	60	46
26...	44	39	47	27	68	33	50	28	79	48	61	40	50	38	64	41	64	36	70	48	53	39	61	28	67	40	57	41
27...	42	28	42	30	72	36	50	38	83	41	58	47	53	47	66	40	68	32	75	49	50	42	56	30	68	41	54	43
28...	50	25	45	35	74	38	55	43	83	42	61	50	52	49	62	42	74	34	73	50	57	45	64	42	68	42	55	51
29...																												
30...																												
31...																												
Mns	37.8	24.6	40.6	17.3	62.9	29.5	52.4	32.8	72.6	38.6	55.9	39.0	51.5	40.0	59.7	38.1	55 8	26.9	65.2	46.0	47.4	37.4	54.2	29.5	62.5	37.8	53.5	39.9

Date.	California.																									
	Redlands.		Sacramento.		San Diego.		San Francisco.		San Jose.		San Luis Obispo.		Santa Barbara.		Santa Rosa.		Sisson.		Stockton.		Summit.		Susanville.		Yosemite.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.....	51	39	48	39	54	43	49	40	50	35	51	38	55	42	52	32	29	9	48	37	26	14	41	11	40	24
2.....	54	35	48	35	56	37	50	41	51	35	53	34	65	31	56	25	32	6	48	28	20	2	24	− 7	40	7
3.....	60	27	47	34	59	39	52	38	57	25	62	27	60	32	55	24	40	4	50	28	26	10	21	− 8	47	11
4.....	65	30	52	34	62	42	56	40	58	28	62	29	63	33	56	23	47	7	54	29	24	20	23	− 5	46	5
5.....	67	34	57	35	60	42	58	40	60	28	67	35	66	37	58	26	42	20	54	30	32	18	22	− 2	50	18
6.....	66	34	53	36	60	41	52	41	57	30	59	34	59	38	56	36	40	30	53	32	36	20	30	0	50	19
7.....	57	33	51	41	58	43	55	47	57	42	56	44	58	40	56	41	42	30	53	33	35	16	35	7	37	28
8.....	68	35	50	40	61	41	54	45	60	36	64	45	59	41	56	34	42	31	51	37	38	18	32	6	49	29
9.....	66	38	53	46	59	44	55	46	58	46	60	44	67	39	54	45	43	25	54	39	35	20	42	22	48	28
10.....	73	37	58	38	64	42	62	46	62	38	67	50	66	41	63	33	42	28	57	40	38	21	40	15	53	22
11.....	77	40	58	43	66	47	62	45	62	36	72	52	70	43	65	35	49	27	58	38	45	35	46	24	60	23
12.....	82	43	59	38	72	50	64	45	65	37	77	56	74	44	65	34	53	30	58	38	46	32	41	21	58	27
13.....	81	48	61	47	70	49	64	50	72	41	71	48	70	47	66	40	48	29	60	42	38	28	55	24	57	32
14.....	59	35	55	43	58	49	53	44	53	40	57	45	60	49	63	41	41	22	58	44	28	24	44	28	48	23
15.....	59	45	51	39	59	45	54	42	55	36	57	40	64	39	56	27	32	23	55	38	46	18	31	7	48	17
16.....	61	31	53	40	64	42	57	45	57	38	58	40	59	39	60	34	38	25	54	35	30	12	32	7	52	19
17.....	62	31	57	37	58	41	55	44	60	35	63	42	60	37	59	45	40	26	52	34	34	23	40	17	48	25
18.....	61	31	50	43	59	40	54	46	54	39	60	41	65	38	60	41	36	23	51	44	31	27	46	28	45	29
19.....	50	35	56	42	56	52	53	47	54	44	57	47	60	45	59	35	41	20	56	43	31	26	44	25	51	19
20.....	54	38	53	39	58	50	53	46	53	42	56	40	60	38	55	35	42	22	55	38	30	24	43	27	51	20
21.....	56	42	57	39	57	49	51	45	55	41	52	39	57	42	52	48	38	30	53	41	32	24	44	27	36	25
22.....	58	42	52	42	58	48	55	44	59	41	52	45	57	43	60	41	39	30	54	43	30	25	44	27	36	24
23.....	68	36	60	46	60	45	59	49	67	48	66	49	61	47	56	48	43	37	57	43	34	25	49	32	53	29
24.....	70	39	57	52	60	44	57	52	60	52	61	46	60	45	57	53	44	35	57	50	38	34	48	35	44	28
25.....	65	41	61	47	61	50	57	48	59	40	59	47	74	50	59	41	40	26	57	48	35	30	45	25	58	29
26.....	80	41	61	44	67	47	59	45	63	36	69	47	71	45	60	34	50	31	60	41	38	26	45	25	60	23
27.....	75	43	59	43	66	48	54	47	60	38	70	50	82	45	57	38	52	36	58	44	35	28	48	28	50	25
28.....	78	43	68	51	64	48	58	49	67	50	69	51	86	54	68	48	43	33	60	48	38	36	56	35	64	32
29.....																										
30.....																										
31.....																										
Means.....	65.1	37.4	55.0	41.2	60.9	44.9	55.8	44.9	58.8	38.5	61.7	43.0	64.6	41.6	58.5	37.0	41.7	24.8	54.8	38.8	34.2	22.7	39.7	17.2	49.2	22.9

Climatological Data for February, 1910.

DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

February was unusually cold in nearly all portions of the Columbia Valley, and being preceded, as it was, by a cold January and December, the winter of 1909–10 will long be remembered as one of the coldest winters ever experienced in this district. The February precipitation was above normal and the proportion falling as snow was greatly in excess of the usual amount; snow covered many valleys where generally the ground is bare for the greater portion of the month, and in the mountains the snowfall was the heaviest for many years. The cold weather was steady from the 1st up to about the 24th when warm weather set in that was attended in the lower levels by general rains; the snow in the lowlands and foothills melted rapidly, while in the mountains, where no melting took place, the supply of snow was greatly augmented. The rivers quickly responded to the melting snow and rain, and all streams draining the Cascade and Coast ranges of mountains and the Blue Mountains reached high stages. Considerable snow was also melted at low levels in northern Idaho and western Montana, and the rivers in those sections also rose, but not to such a marked extent as those in Washington, Oregon, and southern Idaho where floods were impending at the close of the month. Many avalanches and snowslides occurred during this warm period and several lives were lost and a large amount of property was destroyed. A separate report is being prepared covering the avalanches and snowslides in the Columbia Valley during the winter of 1909–10, and it will probably be ready for publication in the March issue of the MONTHLY WEATHER REVIEW.

The cold weather caused much suffering among range stock and where feed was scarce the losses were heavy, especially among sheep and calves. Fall grain is reported to be in good condition in sections where it is most extensively raised. In some portions of the Willamette Valley fall sown wheat was badly winterkilled and considerable reseeding will have to be done; this section was formerly a large wheat-producing locality but in late years crops are more diversified and the amount of wheat raised has been greatly reduced. Fruit has come through the winter in good condition, due probably to the fact that there were few, if any, sudden changes from cold to warm weather, and the sap in the trees was not prematurely started only to be later checked by injuriously low temperatures. Farmers, as a rule, are behind with their work, and much plowing and spraying remains to be done.

Transportation was not seriously interrupted until near the end of the month when snow blockades and avalanches did an immense amount of damage to 3 large railway systems and interfered slightly with the maintenance and operation of a fourth. Country roads were in good condition until near the end of the month in the highlands where the ground was covered with snow, but in the valleys west of the Cascade Mountains the country roads were at times almost impassable on account of the miry condition of the soil which was soaked with moisture to its fullest capacity.

Building operations were greatly hampered on account of the protracted cold spell and scarcely any cement work was done and bricklayers and plasterers were out of work nearly all winter.

TEMPERATURE.

The mean temperature as determined from the records of 219 stations was 29.4°, and with the single exception of an excess of 0.4° at The Dalles, Oreg., in the Valley of the Columbia, it was below the normal in all sections. The greatest departures were in the Snake Valley, where the average temperatures were 2° to 8° below normal. In the Columbia Valley, near the headwaters of the branches in Montana, and from the mouth of the Snake River, in Washington, almost to where the Deschutes River empties into the Columbia, the departures below normal temperatures were only slightly less than those noted in the Valley of the Snake. The warmest section was near the mouth of the Rogue River, in Oregon, where mean temperatures of 45°, or more, occurred. It was, as usual, coldest near the headwaters of the Snake River in southeastern Idaho and western Wyoming, where the mean temperatures were 11° to 16°. At the headwaters of the branches in Montana, the mean temperatures ranged between 14° and 19°, while elsewhere they varied according to the elevation of the stations, being usually highest near the coast, and lowest in the highlands, especially in the interior.

There were two distinctive cold periods, one comprising the first decade, during which the lowest temperatures over the southern portion of the district were generally recorded; the other, from the 14th to the 23d, when the lowest minimum temperatures in the northern sections occurred. These cold spells were more pronounced in the eastern portion of the district, their occurrence being scarcely noticeable west of the Cascade Mountains.

The highest temperatures occurred during the first part of the second and the last few days of the third decade. The highest mean temperature was 45.2° at Gold Beach, Oreg., near the mouth of the Rogue River, at an elevation of 40 feet, and the lowest mean temperature was 10.6° at Camas, Idaho, near the headwaters of the Snake River, at an elevation of 4,815 feet above sea level. The highest temperature was 69° at Roseburg, in the Umpqua Valley, Oreg., on the 11th, and the lowest was −45° at Pleasant Valley, in the Kootenai Basin, Mont., on the 22d.

PRECIPITATION.

The average precipitation, as determined from the records of 320 stations, was 4.36 inches, which is above the normal. There was an excess of over 4 inches in northwestern Oregon, and a deficiency of over 5 inches at Buckhorn Farm, in southwestern Oregon, at an elevation of 1,300 feet. In general, there were deficiencies in the northern Puget Sound and the southern coast drainage basins, and in the central valleys of the Columbia and the Snake rivers; elsewhere local departures were generally above rather than below the normal precipitation, especially in the higher elevations. While precipitation occurred locally on the 1st, the first decade was generally fair; during the second and third decades, however, storms were practically continuous, and the precipitation was quite well distributed throughout this period. That portion falling as snow was largely in excess of the usual amount, especially in the higher elevations of the Blue Mountains in Oregon and Washington, the main range of Rockies in Montana, Idaho, and Wyoming, and in the Bitterroot and Cabinet mountains in Montana, and in these sections at the close of the month there was a large excess accumulation of snow on the ground, the depth in some instances being double the seasonal average. In the coast counties the precipitation, which was mostly in the form of rain, ranged between 2 and 21 inches; between the Coast and the Cascade ranges of mountains the amounts varied from 3 to 17 inches, being greatest near the Columbia River, while east of the Cascade Mountains the range was generally between 1 and 8 inches.

The greatest monthly precipitation was 21.16 inches at Glenora, a station in the Coast drainage area, in Tillamook County, Oreg., and the least monthly amount was 0.18 inch at

Edie, Idaho, in the Lost River drainage basin. The greatest 24-hour fall was 3.79 inches at Glenora, Oreg., on the 26th. Other heavy 24-hour falls occurred as follows: Trask, Oreg., 3.40 inches; Quiniault, Wash., 3.30; Forks, Wash., 2.80; Yale, Wash., 2.60; Cascade Locks, Oreg., 2.34; Lake Keechelus, Wash., 2.30; and Bay City, Oreg., 2.15.

The cloudiness was in excess of the usual amount, being especially noticeable from the 9th to the 28th, inclusive. The prevailing winds were from the southwest, and there were no destructive windstorms.

RIVER CONDITIONS.

As far up as Cascade Locks, Oreg., the Columbia River averaged about 0.5 of a foot higher in February than in January, but from The Dalles toward its source the river was lower than during the previous month. The Snake River was slightly above the mean stage for January and the Willamette was more than 1 foot above.

While there were small local washouts, due to heavy precipitation, during the last half of the month, the main rivers were unusually quiet, and at no reporting station on the Columbia, the Snake, or the Willamette rivers did the mean stage for the month vary more than 0.8 foot from the normal, being higher on the Willamette and the lower Columbia, and lower on the upper Columbia and the Snake rivers. The lowest stages on the Columbia were generally recorded about the middle, and the highest stages at the end of the month, except near the headwaters; on the Snake and the Willamette rivers, the water was at its lowest on the 10th, and was highest on the 28th. The Columbia, at Vancouver, Wash., rose from 2.9 feet on the 11th to 9.0 feet on the 28th, and at Wenatchee it fell from 6.9 feet on the 1st to 5.0 feet on the 21st, this station being the farthest up the Columbia of those that reported during February and the only one that had a higher stage at the beginning of the month than near the end. On the Snake River, at Lewiston, Idaho, the water rose from 1.9 foot on the 8th to 5.5 feet on the 27th. At Eugene, Oreg., near the headwaters of the Willamette, there was a rise from 5.0 feet on the 8th to 8.6 feet on the 28th; at Salem, there was a rise from 4.2 feet on the 10th to 12.5 feet on the last of the month, and at Portland, near its mouth, the Willamette rose from 4.2 feet on the 8th to 11.5 feet on the 28th. All of the rivers were rising at the close of the month; the Yamhill River, at McMinnville, was at 5.7 feet on the 10th, and reached a stage of 27.0 feet on the 28th, but this was exceptional and due to the narrowness of the stream and the proximity to the Coast Range, which caused the effects of the heavy rains to be felt more quickly than at the other stations where the rise was only a few feet.

The ice jam which prevented navigation on the Columbia on January 3, between Lyle, Wash., and The Dalles, Oreg., disappeared on February 3.

At the end of the month the water was rising steadily in all of the main streams and their tributaries. On account of the heavy rains, the great amount of snow in the mountains and chinook conditions prevailing, high water is expected in March in many of the streams in Idaho, Oregon, and Washington; in fact, at the end of the month some of the rivers in southern Idaho had already overflowed their banks, as noted by the Idaho Section Director under a special heading.

FLOODS IN SOUTHERN IDAHO.

The winter of 1909–10 in the valleys and open plains in southern Idaho was the severest in point of almost continuously low temperature that has occurred in many years. The ground over large areas remained frozen for several months, and snow accumulated to considerable depths, where the ground is ordinarily bare, except at intervals. The low temperature continued till about the 23d of February, when a marked change to warmer occurred, attended by rain and wind. Under the influence of the warm wave, assisted by the wind and rain, the snow on the plains and foothills and in the lower valleys melted very rapidly. The ground, being frozen, was not in condition to absorb any considerable part of the moisture, hence most of it found its way into the streams at once, causing many of the smaller ones to overflow their banks, and resulting in unusually high water in some of the larger ones. Indian Creek, which drains a large area of relatively low-lying country in Ada and Canyon counties, and is ordinarily an unimportant stream, went out of its banks on the 28th at Nampa and Caldwell, inundating considerable portions of both towns, causing some damage and much inconvenience. The electric lines running from Boise to these towns were unable to maintain regular schedules for several days. About the same time the Oregon Short Line Railroad track was washed out by the overflow of flats and small streams at a number of places in Elmore, Ada, Twin Falls, and Cassia counties and, as a result, traffic was suspended for about two days and seriously impeded for several days more. The cost of repairs was considerable. The Twin Falls Canal in Twin Falls County was damaged seriously and many roads and bridges were washed out in that section. The heavy flow of water from the foothills flooded some of the streets of Boise, filling cellars, but doing little permanent damage. The total damage in the southern part of the State was probably $100,000. The water was still high at the close of the month.

SNOWSLIDES IN THE CŒUR D'ALENE MOUNTAINS.

A severe cold wave visited the Cœur d'Alene region about the 22-23d. This was followed by a warm wind and heavy fall of snow, with occasional showers of rain. During the 5 days ending on the 27th the total snowfall at Burke was 39 inches, and the measured amount of precipitation was 4.06 inches. The wind, by the 27th, had drifted the snow over the mountains till it has accumulated in great quantities at the heads of the draws. On the 27th, about 8:30 p. m., the snow ceased and rain set in, and at 10:50 p. m., occurred the first series of a destructive snowslides. A mountain of snow came down the draw back of the town and destroyed a part of the mining town of Mace. A short time afterward a second slide buried part of the nearby town of Burke. Several others occurred in the district. Seventeen persons were killed and many others injured, some of them seriously. The parts of the towns struck by the slides were totally destroyed.

IRRIGATION IN IDAHO.

The preliminary work on the Black Canyon Irrigation Project has been completed, and it is expected that bonds will be offered in July or August next and actual construction begun in October. This was originally a part of the Payette-Boise Project of the United States Reclamation Service, but as now constituted is being carried out as an irrigation district, under the laws of Idaho.

The water supply will be obtained from the Payette River, supplemented by Big Payette Lake as a storage reservoir. It is proposed ultimately to lower the outlet of the lake 5 feet and put in a dam 15 feet in height, thus increasing the storage capacity of the lake by a depth of 20 feet.

A concrete and masonry dam will be constructed at a point in the river about 2 miles above Horseshoe Bend, and from this the canal will run along the west side of the river to a point below Horseshoe Bend where it will cross the river by means of a supported flume. From there the canal will run along the south side of the river a distance of between 30 and 40 miles, then through a tunnel approximately 5,000 feet in length, leading to the Boise River slope. This tunnel will bring the water to the tract to be irrigated, and from there it will be carried by canals extending both east and west.

On the Payette slope, immediately adjacent to the tunnel, the canal will require lining. The first lining will be wooden, but this will be replaced later by concrete. Above the lined

section the canal will be mostly cut through igneous rock, or the heavy volcanic soil overlying this rock.

The water right calls for 2,000 second-feet of water. The cost has been estimated at $6,000,000.

The main portion of the land to be supplied includes 109,640 acres, all of which is now desert. In addition, there will be between 15,000 and 20,000 acres covered, which land is now being watered by other means. Most of the land to be reclaimed is already entered, but there are a few tracts still open, and there will be some state land, which will be sold by the State Land Board. The soil is said to be deep, clay loam, on a foundation of lake bed and terrace gravels. The surface is rolling and of such character that the water can be carried along the tops of low ridges and distributed therefrom in each direction to the lower lands. The section is a promising one for fruit growing.

SEVERE WEATHER IN WYOMING.

Reports from the Jackson Hole country state that the elk are in very poor condition and that some are starving; the deep snow in the mountains preventing them from obtaining sufficient feed. About 25,000 of them are reported to be in Jacksons Hole where they are annoying the settlers who have thoroughly fenced their hay stacks. Governor Brooks and State Game Warden Nowlin left Cheyenne about the last of the month on a trip to Jackson, Wyo., to thoroughly investigate the matter and to see what measures should be taken to preserve the big game. The last two winters have been so severe in that section of the State that the elk have been driven farther down toward the valleys than they have been before for more than 20 years. The report of 25,000 elk being in Jacksons Hole may seem to be exaggerated as the valley is only about 13 miles in length, but the report comes from a reliable source and the estimate is believed to be correct.

IRRIGATION IN THE FLATHEAD VALLEY, MONT.

Plans are under way to irrigate 100,000 acres of land in the Flathead Valley, in Montana, near Kalispell. It is the intention to make one unit of the entire project and to construct, so far as possible, concrete dams and conduits. The main diverting canal will start at a point about 6 miles below Coram, on the Flathead River, and while the plan contemplates the watering of 100,000 acres of land, it will include but 50,000 acres at first, leaving the remainder until such time as the timber and stumps that are now on the land are disposed of. The cost will be not less than $35 an acre, which is rather high, but in two instances recently the loss on crops during dry seasons was more than the cost of the project. The annual rainfall at Kalispell is 16.4 inches.

STOCK IN CENTRAL AND EASTERN OREGON.

Numerous reports of the exceptionally severe weather conditions and hardship among the stock growers in central and eastern Oregon were received by this office during the month of February. On February 9 a delegation of stockmen from the Paulina Valley, of Crook County, waited upon Supervisor A. S. Ireland, at Prineville, Oreg., and requested permission to drive their stock upon the early bunch grass ranges of the Deschutes National Forest.

Permission to enter the forest was immediately given and investigation disclosed the fact that they were out of hay on account of the long feeding season. The action taken was reported to the forester and suitable grazing seasons were established to cover the emergency use given.

All supervisors of the central and eastern Oregon forests were telegraphed regarding the situation and requested to assist the stockmen, as far as possible, by permitting the use of available ranges in an effort to carry their stock through the storm period.

TABLE 1.—*Climatological data for February, 1910. District No. 12, Columbia Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of part'ly cloudy days.	Number of cloudy days.		
Montana.																				
Anaconda	Deer Lodge	5,300	9	17.5[a]	.....	44	24	−29[a]	22	44[a]	1.53	.....	.....	12.3	....	8	9	11	.....	C. D. Demond.
Bison	Powell	7,240	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. H. Anderson.
Columbia Falls	Flathead	3,100	16	16.4	− 7.7	43	28	−21	22	49	1.80	+ 0.10	0.60	18.0	8	5	7	16	sw.	Mrs. I. M. Kennedy.
Como‖**	Ravalli	.....	2	26.1	.....	48	12	− 9	22	33	2.11	.....	0.42	.....	14	4	8	16	.....	Hiram Platt.
Darby	....do	3,825	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. A. Kerlee.
Dayton	Flathead	2,800	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Charles Frost.
East Anaconda§	Deer Lodge	5,500	5	18.0	.....	45	13	−23	22	54	1.55	.....	0.45	13.2	7	8	9	11	w.	C. D. Demond.
Fortine	Lincoln	2,975	4	17.8	.....	42	27	−33	22	37	1.45	.....	0.28	22.0	9	7	7	14	w.	Mike Petery.
Hamilton	Ravalli	3,575	7	25.9	.....	51	28	− 26	22	41	2.24	.....	0.56	.....	12	8	11	9	n.	J. B. Currie.
Hat Creek	Powell	6,000	....	.....	.....	.....	.....	.....	.....	.....	1.51	.....	0.58	29.9	7	12	7	9	w.	M. K. Landreth.
Kalispell	Flathead	2,965	11	18.2	− 5.6	42	27	−22	22	26	2.06	+ 0.60	0.60	19.1	14	4	9	15	nw.	U. S. Weather Bureau.
Lost Creek	Deer Lodge	5,200	....	.....	.....	.....	.....	.....	.....	.....	1.03	.....	0.35	14.7	4	12	10	6	sw.	Frank Henault.
McGinnis Meadows	Lincoln	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. L. Beebe.
Missoula	Missoula	3,225	32	22.4	− 2.0	44	24	−14	22	29	1.40	+ 0.51	0.50	.....	13	.....	.....	.....	sw.	U. S. Weather Bureau.
Ophir	Powell	8,800	....	.....	.....	.....	.....	.....	.....	.....	1.51	.....	0.48	8.5	8	7	19	2	w.	E. S. Wilton.
Ovando	....do	4,207	10	11.2	− 7.6	37	27	−38	22	32	.....	.....	.....	.....	.....	0	31	0	.....	S. B. Muchmore.
Philipsburg	Granite	5,275	7	18.2	.....	41	24	−29	22	41	1.48	.....	0.44	24.7	7	11	6	11	s.	G. T. Bramble.
Plains	Sanders	2,475	12	20.8	− 6.4	40	10†	−21	22	48	2.00	+ 1.30	0.80	20.0	5	8	9	20	sw.	M. H. Pierce.
Pleasant Valley	Flathead	3,500	3	17.3	.....	46	5	−45	22	48	2.71	.....	0.65	19.8	9	8	10	10	.....	A. D. Stillman.
Polson	....do	2,920	2	19.0	.....	40	28	−13	22	28	1.05	.....	0.35	13.0	5	.....	.....	.....	.....	F. P. Brown.
St. Ignatius	Missoula	2,700	4	20.4[a]	.....	47[a]	24	−30[a]	22	40	1.62	.....	0.39	20.6	13	4[a]	8[a]	15[a]	.....	U. S. Reclamation Service.
St. Regis	....do	2,650	2	22.8	.....	44	9	−27	22	37	3.80	.....	0.92	38.7	10	6	9	13	ne.	R. D. Lee.
Saltese	....do	3,600	6	.....	.....	.....	.....	.....	.....	.....	7.80	.....	1.31	72.5	11	9	0	19	w.	E. K. Tarbox.
Snowshoe	Lincoln	4,500	4	13.8[b]	.....	37[b]	24	−19[b]	22	33[b]	.....	.....	.....	.....	.....	8	1	19	w.	J. C. Riter.
Troy	....do	1,880	14	26.0	− 3.2	55	20	−26	22	60	2.09	+ 0.20	0.60	45.0	11	16	1	11	e.	W. E. Milnor.
Upper Lake McDonald	Flathead	3,200	2	17.9[b]	.....	45[b]	7	−28[b]	22	33[b]	3.90	.....	0.85	.....	10	3[b]	7[b]	16[b]	s.	F. F. Liebig.
Wyoming.																				
Afton	Uinta	6,200	6	16.6	− 3.7	45	14†	−30	4	40	2.15	+ 0.48	0.30	21.5	12	8	4	16	.....	A. V. Call.
Alta	....do	.....	1	14.0	.....	37	24	−24	3	53	1.42	.....	0.16	20.2	13	9	4	15	sw.	Mrs. Lucy Brown.
Bedford	....do	5,900	10	16.0	− 3.8	41	13	−26	3	44	2.81	+ 1.09	0.52	28.1	16	10	0	18	w.	C. G. Heiner.
Snake River	Yellowstone Park	7,000	4	12.0	.....	37	13†	−34	4	59	3.90	.....	0.90	42.0	11	6	7	15	w.	U. S. Army.
Nevada.																				
San Jacinto	Elko	.....	....	25.4	.....	57	28	− 5	3	39	.....	.....	.....	.....	.....	16	0	12	sw.	Moses Jones.
Utah.																				
Standrod	Boxelder	.....	6	25.8	.....	48	13	1	3	29	1.04	.....	0.28	14.5	9	9	6	13	.....	T. B. Jones.
Idaho.																				
Atlanta	Elmore	5,500	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Warder Lewis.
Albion	Cassia	.....	8	.....	.....	.....	.....	.....	.....	.....	0.42	.....	0.12	.....	5	.....	.....	.....	w.	G. A. Axline.
Almo	....do	.....	2	.....	.....	.....	.....	.....	.....	.....	3.88	.....	1.74	14.0	6	9	14	5	nw.	Wm. L. Eames.
American Falls	Oneida	4,341	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. H. Barber.
Blackfoot	Bingham	4,503	15	19.1	− 7.4	43	28	−19	3†	37	1.14	+ 0.30	0.30	14.0	15	8	9	11	sw.	E. A. Dowd.
Blackfoot Dam	....do	.....	2	14.0	.....	39	14	−30	4	40	1.08	.....	0.14	25.0	19	8	15	5	nw.	N. W. Irsfield.
Blanche	Lincoln	.....	2	26.4	.....	55	25	2	7	35	1.50	.....	0.60	14.0	3	7	12	9	e.	Mrs. Belle Hess.
Bock's Ranch	Elmore	3,500	....	.....	.....	.....	.....	.....	.....	.....	2.64	.....	0.41	24.7	16	.....	.....	.....	.....	William Bock.
Bogus Creek	Boise	4,200	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Ingraham.
Boise	Ada	2,770	25	29.3	− 4.5	54	13	8	4	23	2.00	+ 0.58	0.38	15.7	14	6	4	18	nw.	U. S. Weather Bureau.
Bonners Ferry	Bonner	1,850	4	20.5	.....	43	27†	−18	23	42	1.54	.....	.....	.....	10	13	5	sw.	W. H. Heideman.
Boulder Mine	Boise	4,800	....	.....	.....	.....	.....	.....	.....	.....	5.11	.....	0.73	57.5	19	10	8	10	.....	Patrick Moriarty.
Buhl	Cassia	3,800	4	26.6	.....	47	14	1	3	23	0.45	.....	0.21	13.0	4	.....	.....	.....	w.	H. J. Idema.
Burke	Shoshone	4,082	3	20.2	.....	38	24	−21	22	33	7.79	.....	1.31	89.0	15	4	11	13	nw.	W. Alvin Hall.
Caldwell	Canyon	2,372	6	27.7	.....	55	28	2	3	26	1.64	.....	0.35	18.5	14	4	10	14	e.	Prof. Wm. J. Boone.
Camas	Fremont	4,815	2	10.6[b]	.....	45[b]	28	−29[b]	4	46[b]	0.91	.....	0.30	12.4	7	.....	.....	.....	sw.	Mrs. Edna Faulkner.
Cambridge	Washington	2,651	13	19.2	− 8.2	50	28	−23	3	35	3.38	+ 1.10	0.90	27.0	14	.....	.....	.....	nw.	Chas. H. Shepherd.
Chesterfield	Bannock	5,424	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Chas. S. West.
Clawson	Fremont	.....	....	.....	.....	.....	.....	.....	.....	.....	0.93	.....	0.35	12.0	6	12	2	14	sw.	E. J. Hopkins.
Cœur d'Alene	Kootenai	2,157	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jos. T. Scott.
Cottonwood Creek	Boise	4,000	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Frank Hedrick.
Crawford	....do	4,300	3	19.7	.....	43	13	−20	3	41	3.00	.....	0.80	.....	7	8	3	17	w.	Mrs. Gertrude Kerby.
Culdesac	Nez Perce	1,520	2	27.4	.....	45	24	− 2	22	30	3.06	.....	1.75	11.0	6	10	4	14	.....	R. R. Richmond.
Deary	Latah	.....	....	18.6	.....	40	9	−13	23	33	.....	.....	.....	43.8	....	10	9	9	e.	H. M. Call.
Dent	Nez Perce	1,350	5	26.3	.....	43	9†	− 8	22	31	5.08	.....	0.90	32.5	16	5	11	12	.....	Emil Schuessler.
Driggs	Fremont	6,097	3	14.0	.....	46	24	−29	4	43	1.65	.....	0.33	23.8	8	6	8	14	sw.	Walter H. Durrant.
Edie	....do	.....	....	12.6	.....	38	28	−10	3†	31	0.18	.....	0.18	4.0	1	14	6	8	n.	Geo. B. Edie.
Edwardsburg	Idaho	4,500	....	17.5	.....	43	28	−21	3	36	.....	.....	.....	39.5	....	.....	.....	.....	sw.	W. A. Edwards.
Emmett	Canyon	2,350	4	.....	.....	.....	.....	.....	.....	.....	1.05	.....	0.41	.....	6	.....	.....	.....	sw.	E. L. Marvin.
Forney	Lemhi	.....	....	.....	.....	48[a]	28	−21	2	31[a]	0.92	.....	0.22	10.5	6	3	4	21	sw.	M. B. Merritt.
Garden Valley	Boise	3,600	....	27.4	.....	47	28	−10	4	40	4.69	.....	0.76	30.6	15	6	2	20	n.	Mrs. Gertrude M. Ross.
Garnet	Elmore	2,575	11	32.2	− 5.6	58	27	9	3	26	.....	.....	0.24	.....	.....	13	2	13	e.	Asa A. Kenison.
Gilbert	Nez Perce	3,030	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Loomis.
Glenns Ferry	Elmore	2,569	2	30.0	.....	52	28	7	3	27	2.01	.....	0.46	19.5	13	11	4	13	se.	I. E. Perkins.
Gooding	Lincoln	3,572	....	25.3	.....	50	14	− 2	3	30	1.31	.....	0.40	14.0	8	7	9	12	e.	John Krall, jr.
Grand Forks	Shoshone	3,000	....	22.2	.....	39	8	−24	22	38	9.73	.....	1.25	60.1	14	7	5	16	e.	Henry Kottkey.
Grandview	Owyhee	2,381	....	29.0	.....	55	28	0	8	32	.....	.....	.....	6.1	....	12	8	8	nw.	N. G. Massey.
Green Timber	Fremont	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Otto Stegelmeier.
Grimes Pass	Boise	5,200	....	.....	.....	.....	.....	.....	.....	.....	3.50	.....	0.72	42.2	12	.....	.....	.....	.....	Joseph M. Clarke.
Guffey	Owyhee	2,381	2	31.7	.....	57	28	9	5†	26	0.91	.....	0.28	5.7	15	.....	.....	.....	w.	Fred Perry.
Hailey	Blaine	5,347	6	19.0	.....	41	14†	− 4	17	27	1.34	.....	0.40	12.0	8	10	10	8	sw.	U. S. Forest Service.
Hotspring	Owyhee	2,752	5	32.0	.....	56	14†	6	8	30	.....	.....	.....	7.0	....	9	8	11	.....	J. M. Waterhouse.
Idaho City	Boise	4,000	10	.....	.....	.....	.....	.....	.....	.....	4.12	+ 1.03	1.02	33.5	.....	.....	.....	.....	.....	Mrs. Emma Hammer.
Idaho Falls	Bingham	4,742	16	19.0	− 2.1	43	14†	− 17	4	38	0.47	− 0.80	0.13	9.0	5	13	3	12	ne.	Dr. T. M. Bridges.
Indian Valley	Washington	2,999	2	.....	.....	.....	.....	.....	.....	.....	2.73	.....	0.70	16.5	7	8	8	12	s.	W. E. Henke.
Irwin	Bingham	6,500	....	19.3	.....	45	13	−20	3	41	1.18	.....	0.50	7.3	10	9	6	13	e.	Eva Johnston.
Kellog	Shoshone	2,330	6	25.0	.....	48	24	−13	22	35	4.43	.....	0.66	35.5	17	9	2	17	sw.	W. McM. Huff.
Kirkham	Boise	.....	....	.....	.....	.....	.....	.....	.....	.....	5.32	.....	0.90	38.0	14	5	2	21	e.	Mrs. Josie B. West.
Kooskia	Idaho	1,261	2	28.0	.....	49	28	− 1	3†	29	2.75	.....	0.90	15.8	13	8	4	16	sw.	U. S. Forest Service.
Lake	Fremont	6,700	21	11.2	− 3.5	36	28	−14	3†	36	2.80	+ 0.86	0.60	28.0	9	.....	.....	.....	nw.	J. Sherwood.
Lakeview	Bonner	2,250	13	24.9	− 6.1	41	13†	− 6	22	28	1.99	− 0.78	0.35	30.0	10	5	2	21	sw.	E. D. Faust.
Landore	Washington	5,300	6	21.0	.....	38	6	− 5	2	38	5.39	.....	1.20	60.4	21	6	5	17	.....	Mrs. Emma L. Brown.
Lewiston	Nez Perce	757	17	32.4	− 3.8	54	27	8	22	28	1.27	− 0.07	0.45	5.0	14	4	5	19	e.	U. S. Weather Bureau.
Little Camas	Elmore	5,000	2	.....	.....	.....	.....	.....	.....	.....	3.23	.....	0.48	29.5	16	7	15	6	w.	Solon McCoy.
Long Gulch	....do	4,500	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Elizabeth A. Hjort.
Loon Creek	Custer	6,000	....	17.8	.....	44	24	−22	2	37	2.48	.....	0.47	25.3	12	8	14	6	sw.	Mrs. Emma Walter.
Lost River	Blaine	5,700	....	15.1	− 4.5	45	12†	−24	4	54	.....	.....	.....	.....	.....	.....	.....	.....	sw.	Mrs. Mary L. Lemon.
Lowry	Owyhee	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. D. Winter.
McCall	Boise	5,025	5	.....	.....	.....	.....	−21	3	.....	.....	.....	.....	23.0	8	5	7	16	.....	U. S. Forest Service.
Mackay	Custer	5,897	3	14.2	.....	43	11	−12	4	34	.....	.....	.....	.....	.....	.....	.....	.....	nw.	Do.
Meadows	Washington	3 950	6	21.4	.....	41	14	−17	3†	42	3.56	.....	0.60	40.0	19	6	9	13	.....	Chas. A. Hockney.

TABLE 1.—*Climatological data for February, 1910. District No. 13*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of part'ly cloudy days.	Number of cloudy days.		
Idaho—Cont'd.																				
Milner	Cassia	4,097	7	24.7		45	14	− 9	3	32					5	9	12	7	w.	R. A. Hanson.
Moscow	Latah	2,748	18	25.0	− 5.2	42	24†	− 9	22	30	3.50	+ 1.34	0.49	27.7	15	6	4	18	w.	University of Idaho.
Mountainhome	Elmore	3,150	5	27.4		49	27†	1	20	35	1.52		0.34	12.2	12	6	4	18	nw.	Mrs. Ellen Manion.
Murtaugh	Cassia		4	23.9		50	13†	−11	3	35	1.27		0.35	15.5	9	5	14	9	w.	J. E. Steinour.
Nez Perce	Nez Perce	3,182		26.9		56	27	−12	22	50	1.63		0.63	26.0	8	7	0	21		P. Mitchell.
Oakley	Cassia	4,191	17	27.0	− 4.6	48	27	− 4	4	35	1.40	+ 0.57	0.35	10.0	6	9	11	8	s.	John Adams.
O'Hara Bar	Idaho	1,400						5	22		7.22		1.00	40.5	20	7	13	8		U. S. Forest Service.
Orofino	Nez Perce	1,027	5	29.6		48	28	− 6	22	36	5.00		1.04	33.5	17	8	9	11		Geo. Alteneder.
Payette	Canyon	2,159	20	26.4	− 7.1	49	28	−10	3	38	1.21	− 0.21	0.31	14.3	11	6	7	15	n.	E. F. Allen.
Pebble	Bannock	5,277		19.4[a]		45[a]	13	−24[a]	3	44[a]	3.41		1.60	34.5	8	5	12	11	sw.	Mrs. Fannie Say.
Pierson	Custer	7,000	2								3.54		1.64	28.0	5	11	0	17		David P. Clarke.
Pine	Elmore	4,100									4.33		0.60	24.0	14	7	10	11		Mrs. Jennie Potter.
Placerville	Boise	4,200																		James McDevitt.
Pleasant Valley	Ada	3,000	3	27.0		51	28	4	4	29			0.28	14.2		11	0	17	se.	C. E. Friedrich.
Pocatello	Bannock	4,483	11	24.2	− 3.9	51	13	−12	3	34	0.56	− 0.29	0.20	8.9	10	4	9	15	se.	U. S. Weather Bureau.
Pocatello Nursery	....do	5,396	3																	Mrs. Anna M. Wrensted.
Poplar	Bingham		2			42	9†	−10	5†	48	3.05		1.08	20.3	10	10	2	16	sw.	Stanley Bybee.
Porthill	Bonner	1,665	22	20.8	− 6.3	43	27	−19	22	27	1.33	− 0.72	0.70	25.0	8	12	5	11		H. A. French.
Powers Ranch	Boise	4,300									6.02		0.90	40.5	14	8	10	10	w.	Mrs. Mona B. Powers.
Pyle Creek	....do	3,100									4.23		1.30	48.8	16	8	4	16	ne.	Walter L. Cole.
Rattlesnake Creek	Elmore	4,000									3.98		0.69	25.2	17	7	4	17	nw.	Richard M. Green.
Ruby Creek	Boise	4,400									4.89		0.76	57.4	18	7	8	13	w.	O. A. Hatter.
Rupert	Lincoln	4,204	4	24.2		55	14	−15	3	34	1.14		0.26	21.5	12	9	9	10	sw.	Will Parry.
Salmon	Lemhi	4,040	5			50	24	−25	4	40	0.50		0.12	4.9	10	9	6	13	w.	E. K. Abbott.
Salmon River Dam	Twin Falls		2	26.4		44	13†	0	3	31	0.76		0.23	8.5	13	5	6	17	nw.	Arch M. Gilbert.
Sheep Hill	Boise	5,000	2								4.32			47.4						Clifford M. Gardner.
Shoshone	Lincoln	3,968	2	23.4		45	13	− 8	3	28	1.17		0.42	10.5	9	5	21	2	w.	O. A. Truman.
Silver City	Owyhee	6,280	3								3.59		0.64	30.1	18	8	5	15	sw.	A. D. Bradfield.
Smith Prairie	Elmore	5,200																		Wm. W. Newell.
Soldier	Blaine	5,200																		W. W. Leek.
Sugar	Fremont		3					−21	3†		2.40		0.60	25.5	8	6	4	18	sw.	Geo. F. Webb.
Sunnyside	Elmore			26.2		51	28	4	3	35	2.15		1.00	16.8	9				se.	E. A. Wilmot.
Tilden	Bingham	4,420	2	18.3		43	13†	−24	3	37	1.47		0.83	15.0	6	11	8	9	sw.	Mrs. W. A. Edwards.
Tripod Mountain	Boise	4,300									2.60		0.41	26.0	13	7	5	16	sw.	Mrs. Verna Paddock.
Twin Falls	Twin Falls	3,823	5	26.4		49	14†	− 6	3	29	1.61		0.32	14.1	19	3	18	7	nw.	J. A. Waters.
Vernon	Fremont		13	16.8	− 5.5	40	24	−16	16†	33	2.54	+ 0.97	0.44	28.0	11	7	5	16	sw.	A. M. Slatery.
Wallace	Shoshone	2,728	3	23.9		42	24	−12	22	24	7.64		1.12		13				e.	U. S. Weather Bureau.
Wendell	Lincoln	3,400	2	26.2		47	28	− 2	3	32	1.74		0.50	16.5	10	5	19	4	w.	Chas. L. Dingler.
Washington.																				
Aberdeen	Chehalis	162	19	38.4	− 2.6	52	24	24	1	20	10.23	0.00	1.83	1.8	20	0	21	7	e.	Carl S. Weatherwax.
Anacortes	Skagit	60	16	36.2		55	24	17	21	20	4.22	+ 1.28	1.24	9.0	15	10	8	10		Douglas Allmond.
Baker	....do	200	4	35.8		58	19	14	21†	34	8.53		1.33	32.8	16	10	1	17		Robt. M. White.
Bellingham	Whatcom	60	15	37.0	− 4.7	61	13	12	21	27	4.05	+ 0.93	0.92	13.0	10	12	10	6		Sanford B. Mayhew.
Blaine	....do	53	13	34.3	− 3.3	50	7	13	19	32	3.53	− 0.95	0.51	14.5	14	8	9	11	ne.	John W. Sheets.
Blewett	Chelan	2,200																		John Burmeister.
Bremerton	Kitsap										5.62		1.69	7.2	14					U. S. Navy Yard.
Brewster	Okanogan			22.0		49	27	− 3	22	26	0.40		0.17	4.5	3	12	6	10	ne.	Mrs. H. F. Bertram.
Bumping Lake	Yakima																			U. S. Reclamation Service.
Cashmere	Chelan																			Valley Power Co.
Cedar River	King		3								8.62		1.08	27.9	15	8	2	18		George Landsburg.
Centralia	Lewis	212	17	38.4	− 2.1	61	24	24	3†	28	6.54	+ 2.03	1.30	1.0	13	5	5	18	s.	I. S. Turner.
Cheney	Spokane	2,351	11	33.6		59	6†	−13	22	44	2.21	+ 0.87	1.00	13.0	7	5	8	15	sw.	Northern Pacific Ry.
Clealum	Kittitas	1,930	11	24.0	− 0.6	43	13†	0	16	29	2.83	− 0.71	0.37	65.0	15	7	8	13	ne.	J. A. Balmer.
Clearbrook	Whatcom	140	7	32.3		46	7†	12	18†	26	4.60		1.20	16.0	9	7	6	15	ne.	Geo. Gibbs.
Clearwater	Jefferson	135	14	36.1	− 4.0	47	24	25	2	13	9.75	− 6.74	1.70	T.	16	11	7	10		A. Ritchie.
Colfax	Whitman	2,300	21																	W. H. James.
Colville	Stevens	1,635	10	23.6	− 4.0	48	27	− 9	22	36	0.95	− 0.78	0.37	8.0	9	14	2	12	nw.	W. L. Sax.
Conconully	Okanogan	2,300	10	21.2	− 5.2	51	27	− 8	22	31	0.47	− 0.75	0.22	4.5	4	11	8	9		Wm. Baines.
Cowiche	Yakima																			U. S. Reclamation Service.
Crescent	Lincoln	2,250	10																	Otto Wollweber.
Davenport	....do	2,450	1	23.6		42	6	−11	22	27	0.50		0.13	5.0	9	10	10	8	e.	W. H. Reed.
Dayton	Columbia	1,700	24	29.0	− 5.5	53	24	6	2†	34	3.52	+ 0.70	0.78	19.5	17	6	2	20	sw.	W. W. Hendron.
Detroit	Mason	30	2	36.6		55	24	21	2	24	8.86		1.96	3.5	16	8	5	15	sw.	Walter O. Eckert.
Dixie	Walla Walla	5,000	1								8.59		1.09	65.5	17	3	3	22	w.	T. Z. Andrews.
Duckabush	Jefferson	380	2	34.0[f]		52[f]	24	15[f]	22	22[f]	9.92		3.02	20.0	16	2[e]	9[e]	14[e]	sw.	E. J. Finch.
East Sound	San Juan	500	15	36.2	− 3.2	50	24	9	20	26	4.43	+ 1.46	1.95	19.0	9	15	7	6	nw.	Benj. E. Harrison.
Ellensburg	Kittitas	1,571	22	25.0	− 5.4	48	27	3	16†	24	0.99	− 0.10	0.18	8.0	8	7	8	13	e.	R. Lee Barnes.
Ephrata	Grant	1,265	7	32.4		52	8	9	21	40	0.30		0.10	3.0	3	11[e]	0[e]	12[e]	n.	T. J. Cook.
Forks	Clallam	480	1	37.7[d]		56[d]	8	22	1†	24[d]	12.04		2.80	2.0	20	5	6	17	s.	E. A. Markham.
Fort Simcoe	Yakima	1,427	16	27.2	− 7.8	56	27	2	22	31	2.04	+ 0.39	0.45	17.0	11	7	10	11		Frank C. Hill.
Goat Lake	Shohomish	2,900	1																	C. M. Mackintosh.
Gold Creek	Yakima	2,600	1								3.29		0.85	32.8	12	5	4	19	w.	John W. Anderson.
Goldendale	Klickitat	1,600	4	30.4		45	8†	14	31	25	3.24		0.60	11.0	14	6[a]	12[a]	9[a]	w.	Klickitat Co. Abstract Co.
Granite Falls	Snohomish	397	7								5.33		1.28		16	4	8	16	se.	C. H. Cleaver.
Hatton	Adams	1,100	5	28.6		53	27	0	18†	33	0.80		0.20	6.5	7	8	3	17	nw.	Dr. A. V. Marion.
Huntsville	Columbia	1,400	2								4.00		0.80	12.0	12	5	6	17		Dr. B. Hill.
Irene Mountain	Okanogan	3,015	1								1.33		1.10	7.1	6	12	8	8	n.	Manda Shain.
Kennewick	Benton	367	15	31.6[c]	− 6.2	58[c]	27	3[b]	22	31[c]	0.98	− 0.24	0.30	6.0	6					L. W. Soth.
Kettle Falls	Stevens	1,265	1	26.0		47	25†	− 4	22	32	0.93		0.30	7.6	8	16	9	3		Harry H. Cole.
Kiona	Benton	430	5	32.0		54	28	10	19	30	0.45		0.15	3.5	7	13	6	9	sw.	Dr. F. S. Hedger.
Kosmos	Lewis	775	4	32.7		45	7	16	23	19	8.86		1.16	22.5	22	2	7	19	n.	J. A. Ulsh.
La Center	Clarke	250	13	35.0	− 5.4	52	24	19	2	27	7.91	+ 0.92	1.31	8.0	18	5	4	19	se.	Joseph Brothers.
La Crosse	Whitman	1,400	1	28.1		44	24†	− 3	22	31	2.96		0.49	15.0	13	8	7	13	e.	M. E. Schreck.
Lake Clealum	Kittitas	2,171	1								10.71		1.56	107.1	18	5	2	21	nw.	U. S. Reclamation Service
Lake Kachess	....do	2,235	2	23.6		38	27	1	3†	26	13.79		2.00	135.0	18	7	6	15	e.	Do.
Lake Keechelus	....do	2,479	2								15.00		2.30	131.0	15					Do.
Lakeside	Chelan	1,116	19	24.8	− 5.2	50	27	7	22	29	0.92	− 0.41	0.42	8.5	9	7	11	10	e.	W. H. Van Meter.
Laurel	Klickitat	1,900									6.41		1.10	40.5	19	3	13	12	w.	Mrs. Minnie E. Strout.
Laurier	Ferry																			Mrs. J. S. Myers.
Lester	King	1,614	6	29.9		46	7	8	16	28	10.80		1.95	95.5	16	6	0	22		W. W. Clabaugh.
Lone Tree	Chehalis	9	1	39.4		52	6	29	22	14	8.53		1.50	0.0	20	4	1	23	e.	U. S. A. Engineer Corps.
Longmires Springs	Pierce	2,800	1																	U. S. Forest Service.
Lost Creek	Okanogan	3,125	1								0.55		0.25	6.0	4	10	10	8	w.	P. H. Leese.
Lyle	Klickitat	600	17																	Wm. Morginson.
McCumber's Ranch	Yakima	2,182	1								4.10		0.70	52.0	12	3	7	18		Mrs. Mary McCumber.
Mottinger	Benton	307	10	33.0	− 6.2	55	26	14	22	22	0.73	− 0.39	0.20	3.5	7	13	6	9	e.	G. H. Mottinger.
Mount Pleasant	Skamania	650	10	37.0	− 3.3	58	9†	18	22	28	8.90	+ 2.88	1.75	7.0	18	6	0	22	e.	F. M. Grout.

TABLE 1.—*Climatological data for February, 1910. District No. 12*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Washington—Cont'd.																				
Moxee	Yakima	1,000	18	30.8	− 3.6	56	27	5	19	34	0.81	− 0.16	0.25	4.1	7	3	14	12	.....	Henry B. Scudder.
Newport	Stevens	.....	.....	21.0	.....	43	7	−23	22	42	2.39	.....	0.42	21.0	10	5	11	12	e.	Chas. M. Talmadge.
North Head	Pacific	211	8	41.1	− 1.0	54	8	30	22	16	6.75	+ 0.96	1.13	T.	19	2	7	19	e.	U. S. Weather Bureau.
Northport	Stevens	1,950	11	23.2	.....	51	28	−10	22	35	1.05	− 0.69	0.22	10.5	9	13	9	6	.....	John Palm.
North Yakima	Yakima	1,076	1	31.2	.....	57	27	11	3	24	0.64	.....	0.24	7.0	9	6	12	10	nw.	Albert Bender.
Nutland	Klickitat	.....	1	31.8	.....	54	28	10	21	20	1.41	.....	0.34	0.0	12	.....	.....	.....	.....	J. R. Shepard.
Odessa	Lincoln	1,540	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Wm. U. Neeley.
Olga	San Juan	50	20	37.1	− 3.3	51	24	14	21	25	3.74	+ 0.67	1.62	9.0	10	10	4	14	nw.	Cecil S. Willis.
Olympia	Thurston	200	32	37.6	− 2.7	52	24	22	4	24	9.17	+ 2.35	1.80	4.0	17	4	7	17	sw.	M. O'Connor.
Omak	Okanogan	.....	1	22.8[b]	.....	47[b]	27	1[a]	23	28[c]	0.25	.....	0.05	2.7	7	11	7	10	n.	Wm. G. Tait.
Oroville	...do	922	1	26.1	.....	55	27	− 5	18	32	1.27	.....	0.60	5.9	7	15	5	8	s.	A. M. Dufield.
Peola	Garfield	5,000	1	.....	.....	.....	.....	.....	.....	.....	4.38	.....	0.65	48.9	19	5	4	19	sw.	Samuel Gruell, sr.
Pomeroy	...do	1,500	18	28.9	− 7.8	47	24†	2	22	20	3.80	+ 1.85	1.00	22.0	13	6	17	5	w.	Peter McClung.
Port Crescent	Clallam	259	15	35.2	− 2.0	49	26	16	21	19	5.32	+ 0.61	1.60	10.3	16	2	13	13	se.	U. S. Weather Bureau.
Port Townsend	Jefferson	80	20	38.8	− 1.8	50	24†	22	15	22	1.76	− 0.12	0.55	6.2	13	4	3	21	se.	Frank Plummer.
Pullman	Whitman	2,550	18	26.2[a]	− 6.6	50[a]	24	−15[c]	22	31[i]	2.40	+ 0.30	0.60	17.0	8	7	8	13	sw.	State Agricultural College
Quinault	Chehalis	300	3	36.8	.....	50	24	24	2	19	14.85	.....	3.30	.....	23	7	6	15	w.	A. V. Higley.
Republic	Ferry	2,628	10	19.8	− 5.7	42	25†	−18	22	35	0.60	.....	0.25	5.5	4	8	5	15	nw.	Geo. B. Stocking.
Rex Creek	Chelan	1,135	3	29.6[b]	.....	48[b]	7	13[f]	22	19[i]	.....	.....	.....	.....	.....	7[c]	5[c]	11[c]	.....	James W. Nicol.
Ritzville	Adams	1,825	11	.....	.....	.....	.....	.....	.....	.....	0.67	− 0.85	15	.....	10	.....	.....	.....	.....	Northern Pacific Ry.
Rock Lake	Whitman	1,750	4	26.0[a]	.....	44[a]	13	−14[a]	22	46[a]	1.03	.....	0.23	11.0	8	11	4	13	sw.	P. M. Ramsey.
Rosalia	...do	2,425	18	26.2	− 5.3	43	6	− 4	22	25	2.22	+ 0.54	0.50	13.9	11	10	3	15	sw.	Hans Mumm.
Russells Ranch	Yakima	2,870	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Maggie M. Russell.
Scenic Hot Springs	King	2,021	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. V. Prosser.
Seattle	...do	123	19	38.3	− 2.2	50	6	24	21	20	5.03	+ 1.17	1.44	10.7	18	1	12	15	se.	U. S. Weather Bureau.
Sedro-Wooley	Skagit	38	13	36.2	− 4.4	53	7†	15	21	21	4.66	− 0.12	1.23	10.3	12	8	4	16	.....	Mrs. H. L. Devin.
Sixprong	Klickitat	1,240	3	30.6	.....	50	28	8	23	21	1.01	.....	0.24	7.0	11	6	3	19	ne.	C. E. Comstock.
Skagit Power Dam	Whatcom	123	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Skagit Power Co.
Snohomish	Snohomish	50	16	36.2	− 4.8	55	8	14	3	31	4.20	− 0.80	0.75	9.5	19	5	4	19	se.	Warren Hodge.
Snoqualmie Falls	King	667	11	35.5	.....	50	6	20	22	19	8.58	+ 2.29	1.85	22.0	18	8	0	20	.....	O. N. Wiswell.
Snyders Ranch	Okanogan	2,200	1	.....	.....	.....	.....	.....	.....	.....	1.96	.....	0.35	24.0	9	13	11	4	ne.	Geo. M. Snyder.
South Bend	Pacific	16	15	40.4[d]	− 2.8	57	9	26[b]	21	13[b]	13.70	+ 1.94	2.50	1.0	17	6	0	22	e.	Miss Winifred Eichner.
Spokane	Spokane	1,943	29	26.9	− 3.2	44	6	− 4	22	23	1.58	− 0.35	0.34	13.5	15	5	5	18	e.	U. S. Weather Bureau.
State University	King	170	1	36.6	.....	50	8	22	21	20	5.12	.....	1.00	14.8	17	4	6	18	s.	University of Washington.
Stokes Ranch	Okanogan	2,670	1	.....	.....	.....	.....	.....	.....	.....	1.70	.....	0.60	20.0	7	12	8	8	se.	Amos Stokes.
Sullivan Lake	Stevens	2,700	.....	.....	.....	.....	.....	.....	.....	.....	1.22	.....	0.63	13.1	9	6	8	14	.....	U. S. Forest Service.
Sumner	Pierce	77	2	37.6	.....	52	8	22	22	25	6.31	.....	1.31	5.8	19	6	4	18	n.	H. E. Thompson
Sunnyside	Yakima	740	15	32.2	− 3.3	57	27	6	19	33	0.59	− 0.19	0.13	3.3	9	9	7	12	e.	U. S. Reclamation Service.
Tacoma	Pierce	213	24	37.8	− 2.6	51	8	23	2	21	6.51	+ 1.38	1.57	9.3	20	2	8	18	sw.	U. S. Weather Bureau.
Tatoosh Island	Clallam	86	25	39.1	− 1.9	49	7	25	21	16	6.47	− 2.29	1.25	1.1	17	3	8	17	e.	Do.
Tieton	Yakima	2,000	1	24.9	.....	42	27	4	2†	27	3.31	.....	0.58	26.7	14	7	7	14	e.	U. S. Reclamation Service.
Touchet	Walla Walla	556	3	30.8[a]	.....	58[a]	28	4[a]	19	29[a]	1.22	.....	0.23	13.7	13	6	7	15	e.	D. W. Dorrance.
Touchet Ridge	Columbia	2,500	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	R. H. King.
Trinidad	Grant	900	6	28.3	.....	51	27	10	21†	31	0.40	.....	0.21	3.0	3	10	8	10	n.	J. C. Wheeler.
Twisp	Okanogan	1,619	7	16.0[c]	.....	44[c]	27†	−10[b]	3	31[c]	1.89	.....	0.95	17.9	6	18	4	6	.....	J. S. Allen, jr.
Tyee	Chelan	2,000	1	.....	.....	.....	.....	.....	.....	.....	4.14	.....	.....	38.4	7	7	8	13	w.	Elias McCrea.
Vancouver	Clarke	100	35	38.0	− 2.8	58	24	21	3	26	5.74	+ 1.66	1.08	5.0	21	4	4	23	s.	A. A. Quarnberg.
Vashon Island	King	110	21	38.2	− 2.1	50	24	25	22	16	6.57	+ 1.87	1.46	6.0	19	9	3	16	s.	Miss Gertrude McClintock
Wahluke	Grant	410	6	30.8	.....	57	26	9	22	25	0.26	.....	0.16	0.4	3	7	10	11	.....	F. C. Koppen.
Wallace	Okanagon	4,000	1	.....	.....	.....	.....	.....	.....	.....	0.54	.....	0.14	9.2	6	3	15	10	s.	G. A. Wallace.
Walla Walla	Walla Walla	1,000	26	30.8	− 5.6	51	27	11	22	29	2.73	+ 1.15	0.75	17.5	15	6	4	18	s.	U. S. Weather Bureau.
Waterville	Douglas	2,624	20	19.6	− 5.4	40	27†	− 6	21†	33	1.25	− 0.10	0.30	10.0	7	15	7	6	.....	O. R. Hopewell.
Wenatchee (near)	Chelan	1,169	11	24.8	− 5.9	46	27	3	21	25	1.13	− 0.66	0.29	9.8	12	3	12	13	w.	Geo. A. Pitcher.
West Branch	Stevens	2,600	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Forest Service.
Wilbur	Lincoln	2,203	11	23.6	− 4.4	43	27	−14	22	38	0.60	− 1.04	0.30	7.5	4	8	4	16	s.	Rollin J. Reeves.
Yale	Cowlitz	375	3	36.7	.....	56	11	22	22	21	17.41	.....	2.60	23.5	19	2	11	15	sw.	L. F. Williams.
Zindel	Asotin	715	8	35.0	.....	56	27	15	23	28	2.90	.....	1.21	4.8	7	2	7	10	n.	M. W. Zindel.
Oregon.																				
Albany	Linn	214	28	37.6	− 4.8	54	24	19	3†	23	6.82	+ 1.03	0.90	2.0	22	4	2	22	s.	F. M. French.
Ashland	Jackson	1,940	22	40.0	− 1.6	61	13	21	1	23	2.24	− 0.17	0.73	7.1	9	5	11	12	se.	F. H. Carter.
Astoria	Clatsop	11	48	41.0	− 2.0	55	9	29	22	20	12.72	+ 4.79	1.93	0.0	23	9	5	14	sw.	Irving Club.
Baker City	Baker	3,466	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Weather Bureau.
Bay City	Tillamook	14	15	42.3	− 2.2	59	6	26	4	27	15.25	+ 0.72	2.20	0.5	22	3	3	22	nw.	J. O. Bozarth.
Bend	Crook	3,629	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. O. Minor.
Birch Creek	Wheeler	2,900	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. S. Matteson.
Black Butte	Lane	1,200	9	38.5	.....	50	12	20	2	18	4.15	.....	0.75	0.5	14	7	6	15	sw.	William Harris.
Blalock	Gilliam	235	11	32.0[c]	− 6.8	55[a]	27	0[a]	3†	49[a]	0.86	− 0.44	0.25	7.0	6	3[a]	2[a]	22[a]	e.	Geo. W. Long.
Buckhorn Farm	Josephine	1,300	12	39.6[b]	− 2.8	65[b]	12	14[b]	3	34[b]	7.95	− 5.38	2.24	2.0	14	6[b]	4[b]	16[b]	s	E. F. Meissner.
Cascade Locks	Hood River	100	19	35.4	− 3.9	51	28	19	23	15	14.81	+ 4.88	2.34	27.5	21	4	1	23	e.	Val. W. Tompkins.
Casadero	Clackamas	514	1	39.0	.....	54	24	22	3	25	10.75	.....	1.89	8.9	22	3	2	23	se.	Alf Drill.
Condon	Gilliam	2,888	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. H. Williams.
Connor Creek	Baker	1,800	.....	32.1[b]	.....	58[b]	28	7[b]	3	21[b]	1.53	.....	0.35	10.0	7	6	2	20	s.	R. C. Eisele.
Corvallis	Benton	600	21	38.0	− 3.5	53	24	22	3†	24	7.54	+ 1.64	0.90	6.0	21	0	5	23	sw.	Oregon Agricultural Coll.
Dayville	Grant	1,500	15	35.4	− 3.4	65	13	2	2	37	1.53	+ 0.22	0.37	5.5	9	5	10	13	nw.	Dr. Campbell-Martin.
Doraville	Columbia	600	8	35.8	.....	51	24	18	2	23	8.82	.....	1.07	9.8	22	4	3	21	se.	Jos. Hackenberg.
Drain	Douglas	300	7	43.2	.....	58	8†	24	3†	26	5.10	.....	0.53	0.5	20	2	5	23	sw.	Ira Wimberly.
Echo	Umatilla	625	5	32.0	.....	54	26†	13	22	23	1.07	.....	0.30	11.0	10	5	9	14	e.	R. B. Stanfield.
Ella	Morrow	830	5	32.4	.....	58	28	12	23	32	0.61	− 0.47	0.36	7.0	4	13	4	11	sw.	C. F. Troedson.
Eugene	Lane	449	20	38.7	− 4.1	57	25	18	3	22	4.18	− 0.53	0.81	2.5	18	4	4	20	s.	F. L. Barker.
Fairview	Coos	142	12	43.8	− 2.8	58	24	23	2	28	8.91	− 1.36	1.23	5.0	18	2	3	23	n.	William Bettys.
Falls City	Polk	355	12	39.2	− 1.6	55	24	22	3	24	11.60	− 0.69	2.23	4.0	16	5	5	18	e.	Chas. F. Vick.
Forest Grove	Washington	220	20	38.3	− 2.0	54	28	20	4	25	7.13	+ 0.36	1.31	4.5	21	0	8	20	ne.	Pacific University.
Gardiner	Douglas	72	20	44.7	− 1.1	56	5†	28	2	20	10.85	+ 0.17	1.94	.....	22	4	8	16	.....	Hon. J. S. Gray.
Glendale	...do	1,441	5	43.2	.....	62	28	16	3	21	6.10	.....	1.30	4.0	9	9	8	11	nw.	C. Olson.
Glenora	Tillamook	575	18	35.4	− 5.8	50	24	19	4	20	21.16	+ 4.88	3.79	17.5	21	5	1	22	sw.	Mrs. Jennie Reeher.
Gold Beach	Curry	40	8	45.2[a]	.....	56[b]	5	28	2†	23[a]	7.78	.....	1.73	0.0	18	7	3	18	s.	C. Dewey.
Granite	Grant	4,680	4	24.1	.....	47	13	−20	2	56	2.91	.....	0.60	43.0	15	2	6	20	se.	L. M. Ford.
Grants Pass	Josephine	956	21	41.4	− 0.9	62	12	16	2†	33	2.70	− 2.60	0.98	T.	15	5	6	17	sw.	John B. Paddock.
Grass Valley	Sherman	2,381	8	30.6	.....	60	27	5	22	25	1.33	.....	0.60	8.0	5	4	10	14	sw.	Oreg. Ry. & Navigation Co.
Greenleaf	Lane	250	10	41.8[a]	.....	54[a]	8	24[a]	3	23[a]	15.27	.....	1.69	2.2	25	6[a]	2[a]	19[a]	sw.	Wm. H. Wheeler.
Grindstone	Crook	5,000	.....	.....	.....	.....	.....	.....	.....	.....	2.30	.....	0.43	13.8	12	8	5	15	sw.	Orrin C. Mills.
Headworks	Clackamas	719	4	35.6	.....	50	8	21	22	22	12.43	+ 4.31	2.42	13.5	21	4	3	21	ne.	Portland Water Works.
Heppner	Morrow	1,950	21	29.4[d]	− 6.4	52[c]	27	5[d]	3	32[c]	0.68	− 0.77	0.20	12.3	12	4	8	16	s.	Ralph Kenton.
Hermiston	Umatilla	450	3	31.4	.....	54	27	12	3	23	0.69	.....	0.24	8.5	9	2	12	14	se.	C. W. Kellogg.
Hood River	Hood River	243	19	32.6	− 3.6	50	28	16	22†	21	4.55	− 0.24	1.00	16.5	13	11	0	17	w.	H. L. Hasbrouck.
Huntington	Baker	2,110	9	31.4	.....	50	28	12	1	26	0.45	.....	0.25	2.0	1	0	2	26	.....	J. M. Day.
Jacksonville	Jackson	1 640	21	39.4	− 1.8	56	22†	16	2	28	2.69	− 1.45	0.95	T.	8	7	10	11	s.	E. Britt.

TABLE 1.—*Climatological data for February, 1910. District No. 12*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Oregon—Cont'd.																			
Joseph	Wallowa	4,400	21	20.2	− 6.0	42	27	− 4	3	31	2.30	+ 0.70	0.50	21.0	9	9	0	19	n.	F. F. McCully.
Le Grande	Union	2,784	24	29.6	− 1.1	49	27	3	3	32	2.86	+ 0.98	0.70	42.3	16	4	4	20	nw.	W. A. Worstell.
Madras	Crook	2,150	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Rea.
Marshfield	Coos	12	6	44.3	.....	60	8	26	3	28	.....	.....	.....	.....	.....	.....	.....	.....	sw.	Mrs. E. I. Mingus.
McKenzie Bridge	Lane	1,400	7	35.1	.....	56	8	11	2	37	11.31	.....	1.47	0.0	22	4	0	24	sw.	Geo. Frissell.
McMinnville	Yamhill	180	22	39.8[a]	− 1.7	54[a]	8	25[a]	22	27[a]	6.78	+ 1.11	1.08	.....	20	4	4	20	sw.	J. H. Pruett.
Mikkalo	Gilliam	1,600	4	31.0	.....	51	27	10	23	23	1.11	.....	0.29	8.0	9	8	7	13	e.	Frank Little.
Miramonte Farm	Clackamas	195	21	38.8	− 2.7	55	24	20	2	2	6.37	+ 1.25	1.20	6.8	20	4	2	22	s.	G. M. Muecke.
Monroe	Benton	350	13	40.0	− 2.7	55	9	20	3	21	7.32	− 0.44	1.28	4.5	18	3	3	22	sw.	L. A. Peek.
Mount Angel	Marion	485	24	38.3	− 3.1	55	27†	19	28	36	7.55	+ 2.64	1.25	5.5	16	4	5	19	sw.	Dr. W. F. Fisher.
Mount Hood	Hood River	1,650	....	32.8	.....	50	9	10	2	32	6.77	.....	0.85	36.5	17	2	3	23	w.	S. G. Babson.
Mountain Park	...do	1,550	4	30.5	.....	45	27†	13	22†	19	12.11	.....	1.38	48.3	21	2	1	25	e.	M. Markley.
Musick	Douglas	5,000	....	28.8	.....	51	13	0	1†	50	10.44	.....	1.36	92.5	21	6	3	19	sw.	Alex. Lundburg.
Newport	Linton	69	22	44.4	− 1.2	58	8	28	2	21	8.50	− 3.36	1.64	0.0	21	5	3	20	sw.	WilliamMatthews.
Pendleton	Umatilla	1,272	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. F. Johnson.
Pilot Rock	...do	1,872	1	30.2[a]	.....	54[a]	24	10[a]	3	34[a]	1.18	.....	0.27	12.2	14	7[a]	17[a]	3[a]	sw.	John P. McManus
Pompeii	Clackamas	3,580	15	28.4	− 3.3	41	8	8	22	20	14.53	+ 4.13	1.50	96.5	21	4	2	22	sw.	O. C. Yocum.
Portland	Multnomah	57	38	39.3	− 2.5	56	24	23	22	22	6.45	+ 0.67	1.24	2.1	20	4	3	21	e.	U. S. Weather Bureau.
Prineville	Crook	3,000	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Prospect	Jackson	2,750	4	35.0	.....	61	19	5	2	40	8.90	.....	1.60	13.5	13	6	6	16	nw.	E. F. Graham.
Ramsey	Wasco	1,350	....	30.3	.....	50	27	10	23	29	2.33	.....	0.35	15.8	17	9	6	13	e.	Mrs. Iva B. Collins.
Range	Grant	3,500	1	20.0	.....	44	12†	−12	2†	48	4.50	.....	0.80	42.0	16	3	6	19	.....	Craig Thom.
Richland	Baker	2,350	8	27.2	.....	53	28	0	3	31	1.20	.....	0.30	11.0	7	6	7	15	.....	C. G. Morgan.
Riverside	Malheur	3,000	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. Leah Fairman.
Roseburg	Douglas	523	33	42.8	− 0.6	69	11	22	3	28	2.44	− 2.33	0.51	T.	17	1	14	13	s.	U. S. Weather Bureau.
Salem	Marion	120	20	39.6	− 3.5	53	24	22	2†	21	4.92	+ 0.34	1.00	3.0	18	2	1	25	sw.	M. P. Baldwin.
Siskiyou	Jackson	4,115	1	32.8	.....	56	13	15	2	23	4.23	.....	1.16	25.5	14	6	14	8	sw.	Lewis F. Bates.
Sparta	Baker	4,150	17	22.2	− 5.7	40	28	− 2	2	30	5.77	+ 3.25	1.20	57.0	15	8	12	8	e.	Hon. J. A. Wright.
Stafford	Clackamas	400	13	38.5[a]	− 3.3	60[a]	8	20[a]	3†	32	8.68	+ 2.29	1.30	9.5	21	.....	.....	.....	sw.	John P. Gage.
The Dalles	Wasco	112	35	34.6	+ 0.4	54	27	19	23	20	2.67	+ 0.61	0.37	10.5	15	6	6	16	e.	S. L. Brooks.
The Heads	Curry	300	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Willis T. White.
Toledo	Linton	50	20	42.0	− 2.2	58	1†	27	2†	31	11.95	+ 1.72	2.00	0.1	19	6	5	17	n.	C. B. Crosno.
Umatilla	Umatilla	340	14	33.7	− 3.3	54	27	15	3	24	0.92	+ 0.01	0.29	5.1	8	4	5	19	e.	Mrs. Helen T. Duncan.
Vale	Malheur	2,450	18	24.0	− 7.3	54	28	−10	3	33	0.88	− 0.08	0.25	6.7	7	10	6	12	ne.	H. P. Osborn.
Van	Harney	3,506	4	25.6	.....	50	13†	−19	3	54	1.72	.....	0.33	17.0	9	10	7	11	nw.	Geo. Howe.
Wallace Orchard	Polk	170	1	38.4	.....	55	24	19	2	24	5.77	.....	1.08	4.5	18	2	4	22	.....	Chas. A. Parks.
Wallowa	Wallowa	2,935	7	22.2	.....	48	27†	−20	3	38	2.20	.....	0.39	25.5	17	3	1	24	nw.	L. J. Coverstone.
Wasco	Wasco	1,500	2	33.6	.....	51	27	10	22	27	1.72	.....	0.60	18.0	10	2	16	10	w.	A. J. Swift.
Warmspring	Crook	1,600	8	36.6	.....	65	28	13	2†	47	0.63	.....	0.42	7.2	4	11	12	5	nw.	C. C. Covey.
Weston	Umatilla	1,800	20	28.4	− 6.2	56	28	4	2	36	3.05	+ 0.58	0.60	12.5	11	2	6	20	sw.	M. A. Baker.
Williams	Josephine	1,368	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. M. John.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
‖ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for February, 1910. District No. 12, Columbia Valley.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Montana.																																	
Anaconda	Missoula							T.				T.		*	*	.73		T.	*	.16	*	.23			.09	.32		T.					1.53
Bison Mountain	do																																
Columbia Falls	Flathead									.35			.60		.30				.05		.10		T.	.30	T.		.05	T.	.05				1.80
Como	Bitter Root	.10											.09	.41	.42	.04		.03			.10	.06	.11	.06	.36	.01	.06	.26					2.11
Darby	do																																
Dayton	Flathead																																
East Anaconda‖	Missoula							T.			T.	T.		.20	.35	.10	T.	.10	T.	T.	.45	.10			.25	T.		T.					1.55
Fortine	Flathead							T.			.12			.28	.26			.05	T.					.17	.28	.21	T.	.05	.03				1.45
Hamilton	Bitter Root	.06												.05	.56	.21	.11		.05			.47	.10	.14	.09	.20			.20				2.24
Hat Creek	Missoula	.58					T.	T.							.34	T.				.18	.19	.06			.08	.08							1.51
Kalispell	Flathead	.02						.04		.11	T.		.13	.26	.48			.14	.02		.11		.04	.48	.06	T.	.03		.14				2.06
Lost Creek	Missoula	.15									T.	T.	T.	T.	T.	.34	T.		.19		T.	.35			T.				T.				1.03
McGinnis Meadows	Kootenai																																
Missoula	Missoula	.08						T.			.01	T.	T.	.11	.50	.03		.06	.14		.01	.12		.11	.03	.18		T.	.02				1.40
Ophir	do										T.	.04	.06	.02	.45				T.		T.	.48		*	.30	T.	T.	.16					1.51
Ovando	do																																
Philipsburg	do	.20						T.						.01	.44	.20	T.	T.	T.	T.	T.	.42			T.	.15			.06				1.48
Plains	Columbia													.10	.80							.20	.30	.60	T.			T.					2.00
Pleasant Valley	Kootenai									T.			T.	.20	.65			T.	T.		.10	.40		.30	.60	.19	.07	T.	.20				2.71
Polson	Flathead												.35			.16							.22	.27				.05					1.05
St. Ignatius	do	.02			T.			.03			.06		T.	.05	.39	.09		.05	.11	T.	.09	.29	T.	.13		.28	T.		.03				1.62
St. Regis	Missoula													.92	.53				.12			.30		.68	.23	.24	.05	.33	.40				3.80
Saltese	do												.95	.78		.27		.20			.82		.47	.98	.75	.35	.92	1.31					7.80
Snowshoe	Kootenai	.07						T.		T.	.04	T.	T.	.90	.74	.15		.16	.05	T.	.23	.40	.02	.64	1.50	.72							
Troy	do										.13			.20	.09			.07			.10			.26	.20	.20		.60	.15				2.09
Upper Lake McDonald	Flathead			T.			T.			T.	.18	.05		.52		T.		T.	T.	T.	.35	T.	T.	.41	.85	.40	.26	.38	.50				3.90
Wyoming.																																	
Afton	Snake	.20									.10	.20			.20	.05				.30	.30	.20	.20	.10				.10	.20				2.15
Alta	do	.15									.14	.09		.02	.04	.09			.10	.16	.10			.12			.13	.14	.14				1.42
Bedford	do	.05	.26								.17	.07	.13		.04	.09			.09	.18	.18	.14	.21	.22	.10			.36	.52				2.81
Snake River	do	.30										.20	.20	.30	.30					.40		.40		.90	.30	.20		.40					3.90
Nevada.																																	
San Jacinto	Snake																																
Utah.																																	
Standrod	Raft	.28	T.						T.	T.	.01	.04			.06	T.	T.		.15	.15	T.			T.		.06	T.	.01	.28				1.04
Idaho.																																	
Atlanta	Boise																																
Albion	Upper Snake	.05							.09	T.	T.								.12	.12	.04												0.42
Almo	do	T.								T.		.15			.66					1.74	T.				.29	.29			.75				3.88
American Falls	do																																
Blackfoot‖	do	.30						.03	.06	.04	.07	T.	T.	T.	.03	T.	T.	.07	.07	.04	.15		.06	.03	.10		.02	.07					1.14
Blackfoot Dam	do	.02							.07	.05	.09	.12			.07	.02	.04	.01	.08	.06	.09	.03	.02	.14	T.	.04	.01	.07	.05				1.08
Blanche	Middle Snake																	.60	.50		T.		T.	.40	T.		T.						1.50
Bock's Ranch	Boise							T.	.03			.07		.05	.08			.17	.32	.30	.05	.06	.24	.35	.09	.11	.17	.14	.41				2.64
Bogus Creek	Payette																																
Boise	Boise	T.						.01		.08	T.	.06	T.		.17	T.		.38	.10	.22	.13	T.	.21	.16	.02	.01	.27	.18	T.				2.60
Bonners Ferry	Upper Columbia													.19	.16				T.				T.	.32	*	*	.72	.15				1.54
Boulder Mine	Boise	.06						.05			.10	.08		.16	.56	.06		.11	.23	.32	.15	.30	.08	.33	.65	.28	.26	.50	.73				5.11
Buhl	Upper Snake																	.12	.21			.06					.06						0.45
Burke	Upper Columbia	.11								T.	.18		T.	1.13	.54	.15		.13	.07		.20	.44		.97	.65	.64	1.31	.49	.78				7.79
Caldwell	Boise	.03								.09	.03	.03	T.		.22			.05	.24	.35	.10		.25	.01	.05	T.	.18		.01				1.64
Camas	Lost River Region	.30								.09	T.	.04			.30	T.					.05	.10	.63										0.91
Cambridge	Middle Snake	.08								.14		.05			.60			.28	.10	.08	.12		.10	.90	.40	.05	.35		.13				3.38
Chesterfield	Upper Snake																																
Clawson	do	.03									.35	.05	T.		T.			T.			.10						.30	.10					0.93
Cœur d'Alene	Upper Columbia																																
Cottonwood Creek	Boise																																
Crawford	Payette	T.									T.	T.		.20				.50		.30		T.	.10	.50	.60	T.	T.		.80				3.00
Culdesac	Clearwater														1.75			.60	.01			.10		.10					.50				3.06
Deary	do																																
Dent	do										.18	.06	.08	.68	.85	.07		.39	.07		.25	.23	.02	.90	.28		.45	.42	.15				5.08
Driggs	Upper Snake	.33									.15	T.	T.	T.	.30	T.				T.	.23			.28		.20		.10	.06				1.65
Edie	Lost River Region	T.										T.			.18					T.	T.	T.			T.		T.						0.18
Edwardsburg	Salmon																																
Emmett‖	Payette	.02								.10								.35	.41						.05				.12				1.05
Forney	Salmon	.20													.20	.10							.15					.22	.05				0.92
Garden Valley	Payette										.08	.22		.23	.34			.26	.41	.35	.16	.05		.76	.61	.30	.17	.25	.50				4.69
Garnet	Middle Snake																																
Gilbert	Clearwater																																
Glenns Ferry	Middle Snake							T.	.01		.02	.03					.05	.36	.46	.05		*	.50		.05		.05	.15	.28				2.01
Gooding	Wood-Malad	T.							.01	T.					.02			T.	.20	.25	T.		.16	.15	T.		T.	.12	.40				1.31
Grand Forks	Upper Columbia										.06	.04		1.22	1.08			.46	.18		.18	.68		1.25	1.08	.66	.98	1.16	.70				9.73
Grandview	Middle Snake																																
Green Timber	Upper Snake																																
Grimes Pass‖	Boise									.09	.06			.19	.23			.39	.33		.21				.72	.30	.18	.59	.21				3.50
Guffey	Middle Snake	T.						.04		.03	.02	.02	.03		.07	.01		T.	.17	.28	.09	.01	.09	.01	T.	.02	.02						0.91
Hailey	Wood-Malad	.14										T.		T.	.02	T.		T.	.07	.27		.02	T.	T.	.20	.22	T.	T.	.40				1.34
Hotspring	Middle Snake																																
Idaho City	Boise					*	*	.37						*	.46		.39	.31				.27		1.02	.45			.35	.50				4.12
Idaho Falls	Upper Snake		.13	.08										.13					.10		.03												0.47
Indian Valley‖	Middle Snake													.50			.21		.42		.65	.10			.70				.15				2.73
Irwin	Upper Snake	.50								.01					.36			.02	.01	.01	.15	.01	T.	.02				.09					1.18
Kellog‖	Upper Columbia	.20									.21	.01		.37	.48	.10	.01	.08	.17		.03	.43		.45	.60	.31	.12	.20	.66				4.43
Kirkham	Payette											.09	.11		.35	.10		.80	.90		.10	.37	.30	.70	.50	.30		.40	.30				5.32
Kooskia	Clearwater	.10									.15			.10	.90	T.		.50			.20	.06	.08	.12	.06	.18	.05	T.	.25				2.75
Lake	Upper Snake	.40									.40	.20	.20	.20	.60					T.	T.		.20	.20		.40							2.80
Lakeview	Upper Columbia										.15			.05	.14	.35					.15	.30	.25		.15		.20	.25					1.99
Landore	Middle Snake	.20						T.	T.	.07	.06	.05	.02	.11	.09	.18	.02	.22	.27	.15	.06	.72	.04	.24	1.20	.10	.15	.29	.55				5.39
Lewiston	Clearwater									.02		T.	.01	.27	.18			.07	.05		.06		.15	.11	.04	.04	.02	.08	.17				1.27
Little Camas	Boise							T.		.05		.11	T.	.05	.11	.13		.40	.12	.40	.15	T.	.20	.27	.28	.26	.15	.07	.48				3.23
Long Gulch	do																																
Loon Creek	Salmon	.15									.27	T.	.23	.47	T.				.05	.17	T.	.04	T.	.12	.25	.34	T.	.04	.35				2.48
Lost River	Lost River Region																																
Lowry	Owyhee																																
McCall	Payette																																
Mackay‖	Lost River Region																																
Meadows	Salmon	.16						T.	T.	T.	.08	.06	.04	.12	.57	.01		.19	.16	.43	.10	.03	.03	.45	.30	.05	.60	.13	.05				3.56
Milner	Upper Snake																																
Moscow	Upper Columbia									.07	.10		.02	.49	.30			.24	.07	T.	.20	.11	.10	.45	.35		.45	.20	.35				3.50
Mountainhome	Middle Snake							T.		T.				.07	.06			.05	.34	.18	.04		.21	.17		.03	.03	.11	.23				1.52
Murtaugh‖	Upper Snake	T.							T.		.07					.03			.35	.09	.11	.10			.18		.06		.28				1.27
Nez Perce‖	Clearwater														.63			.13	.04		.43		.12	.12	.08				.08				1.63
Oakley	Upper Snake	.15																	.35	.35	.15					.05			.35				1.40
O'Hara Bar	Clearwater	.30						.50		.60	.30	.01	.10	.30	.80	.30		.25	.30	.20	.60	.40	T.	1.00	.01	.25	.30	.50	.20				7.22

TABLE 2.—*Daily precipitation for February, 1910. District No. 12*—Continued.

Stations.	River basins.	Day of month.																												Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Idaho—Cont'd.																																	
Orofino	Clearwater										.32	.06	.06	.42	1.04	.26		.55	.10		.32	.09	.04	.50	.15	.20	.28	.23	.38				5.00
Payette	Payette	T.								.05	T.	.01			.07			.10	.19	.31	.04		.12	.07	.06		.19		T.				1.21
Pebble	Upper Snake								.12		.20	T.			T.		T.	.85	1.60	.15	T.	.29	.10				T.	.10	T.				3.41
Pierson	Salmon											T.				.87				.20		.31				.52			1.64				3.54
Pine	Boise	T.								T.	T.	T.	.10		.60	.06			.48	.50	.10	.20	.30	.30	.35	.44	.10	.20	.60				4.33
Placerville	...do																																
Pleasant Valley	...do																																
Pocatello	Upper Snake	.20						T.	.01	T.	.01	.01	T.		.02	T.	T.	.04	.07	.09	T.	T.	T.	.01		T.	T.	T.	.09				0.56
Pocatello Nursery	...do																																
Poplar	...do	1.08								.01	.08	.40	T.		.66	T.		.08	T.	T.	.34		.06	.11			T.	.23					3.05
Porthill	Upper Columbia													.16	.16						.10			.01	.70	.02	.09	.09					1.33
Powers Ranch	Boise							.04	T.	.04		.18			.65	.06		.90		.82	.38		.78	.15		.45	.55	.50	.52				6.02
Pyle Creek	Payette									T.	T.	.11	.04	.07	.13			.21	.12	.27	.15	.11	.09	1.30	.60	.13	.44	.30	.16				4.23
Rattlesnake Creek	Boise	T.						.09		T.		.06	T.	.10	.18	.06		.25	.25	.40	.15	.15	.22	.69	.20	.15	.20	.29	.54				3.98
Ruby Creek	...do							.04		.05	.03	.09			.38	.07		.22	.43	.76	.20	.11	.14	.69	.30	.12	.42	.34	.50				4.89
Rupert	Upper Snake	.03							.02	T.	.01	.04			T.	T.	T.	T.	.20	.26	.08	.01	.05	.06	T.	T.	T.	.15	.23				1.14
Salmon	Salmon	.02									T.	.08	.05		.05			T.	.09	.12		.05		T.	.01	.02	T.		.01				0.50
Salmon River Dam	Middle Snake	.03	T.					.01	.06	.04	.02	.05			T.	T.		T.	.05	.23	.02		.04	.01		.01	T.	T.	.19				0.76
Sheep Hill	Boise																.31		.63	.57	.20				1.67				.94				4.32
Shoshone	Wood-Malad	.02						T.		T.		T.		T.	.62			.04	.15	.20	T.	T.	.09	.13		T.	T.	.10	.42				1.17
Silver City	Owyhee	.13						.13		.25	.02	.10			.21	.18			.42	.64	.19	.04	.29	.12	.03	.22	.25	.12	.25				3.59
Smith Prairie	Boise																																
Soldier	Wood-Malad																																
Sugar[‖]	Upper Snake	.60						T.	.20	.10	T.	.20	T.		T.			.50	.20	T.	.40		T.	T.	.20			T.					2.40
Sunnyside[‖]	Middle Snake								.08		.05	1.00							.37	.10	.03	T.		.28	T.	T.	T.	.14	.10				2.15
Tilden	Upper Snake	.83							T.	.03	.04							T.	.09	.40			T.	T.				.08				1.47
Tripod Mountain	Payette							T.	T.	.21	.08				.13	T.		.20	.16	.22	.23	T.	.15	.30	.30	.T	.41	.05	.18				2.60
Twin Falls	Twin Falls	.03						.05	.04	.01	.04				.09	.03		.02	.30	.32	.12	.04	.13	.08	.01	.04	.04	.07	.15				1.61
Vernon	Upper Snake	.44								.04		.40			.18			.20		.30	.30		.20	.25			.08	.15					2.54
Wallace	Upper Columbia	.06						T.	T.	.01	.25	.02	.02	1.12	.54	.05	.03	.09	.09		.10	.46		.94	.80	.70	.37	1.09	.90				7.64
Wendell	Upper Snake	T.							.03	T.		.03			.10				.35	.18	.02	T.	.08	.35		T.		.10	.50				1.74
Washington.																																	
Aberdeen	Coast	.05				.13	.09			.22	.04		.88	.23	.15	.17	.21	.53	.03		.48		.05	1.83	1.60	.18	.62	1.76	.98				10.23
Anacortes	Puget Sound	.01								.09			.09	.29	.02		.40	.40		T.	.15		*	.50	.38	.10	.30	1.24	.25				4.22
Baker	...do	.28								.81	.09			.04	.10		.18	.78			.33	.12	.12	1.33	.76	1.26	1.08	.72	.53				8.53
Bellingham	...do									.05			.10		.10			.80	.63					.50	.20	.65		.92	.10				4.05
Blaine	...do					T.	.16	.02		.15			.07	.29			.08	.48			.05			.38	.35	.31	.42	.51	.26				3.53
Blewett	Wenatchee																																
Bremerton	Puget Sound	.02						.08		.09		.01	.11		.50			.25	.08			.01		.64	1.46	.29	.39		1.69				5.62
Brewster	Columbia										T.	.17	T.				.12	T.			T.				.11								0.40
Bumping Lake	Yakima																																
Cashmere	Wenatchee																																
Cedar River	Puget Sound	.32								.22			.40	T.	.39	.09	.51				.65	.15	.68	1.08	.87	.53	.83	.86	1.04				8.62
Centralia	Coast	.05							.24					.80	.28	T.	.10	.25	.13			T.	T.	1.30	1.30	.45	.25	1.14	.25				6.54
Cheney	Spokane												.11					.07	.17	.38	1.00	.10	.38										2.21
Chelalum	Yakima											.15	.20	.25	.04	.16	.11	.24	.17		.37	.08		.25	.16	.17	.28		.20				2.83
Clearbrook	Puget Sound					.17	.04			.16			.40	.40				1.20						.40	.84		.86		.13				4.60
Clearwater	Coast					.48				.30	.10		.20	.60	.02	.05	.10	.40			.45			1.70	1.25	.30	1.70	1.65	.45				9.75
Colfax	Palouse																																
Colville	Columbia										.04		.03	.05	.06			.04			.18			.08	.37		.10						0.95
Conconully	Okanogan												.10	.22						.05					.10			T.	T.				0.47
Cowiche	Yakima																																
Crescent	Spokane																																
Davenport	Columbia									T.	.03			.13	.03			.05			.04	.09		.05	.04				.04				0.50
Dayton	...do									.02	.22		.03	.78	.46			.18	.15	.14	.17	.06	.03	.41	.14	.15	.29	.17	.12				3.52
Detroit	Puget Sound					.07				.22		.09	.41	.22	.09	T.	.12	.30			.10		.30	1.20	1.80	.55	1.14	1.96	.29				8.86
Dixie	Columbia									.12	.51	.05	T.	.94	1.09	.39	T.	1.01	T.	.20	1.00	.34	.09	1.02	.30	.39	.80	.20	.14				8.59
Duckabush	Puget Sound					.80		1.15		.07		.08	.43		.62		.30	.17	.02			.15		.48	3.02	.32	1.30	.18	.83				9.92
East Sound	...do						.15						.26	.03			.80	.44			*		*		.80			1.95					4.43
Ellensburg	Yakima											.15	.18	.07		T.	T.	.15		T.	.15	T.		.05	T.	.14		T.	.10				0.99
Ephrata	Columbia												.10			.10		.10															0.30
Forks	Fort Simcoe	.08						.32	.13		.34	.02	.03	.63	.02	.05	.05	.10	.50		.01	.42		1.45	1.50	.44	2.70	2.80	.45				12.04
Fort Simcoe	Yakima											.22	.30	.10	.45			.04		.07	.15			.22	.05	.40		.04					2.04
Goat Lake	Puget Sound																																
Gold Creek	Yakima											.18		.50	.80			.28	.05		*	.22	*	*	.85	.40		.01					3.29
Goldendale	Columbia										.10	.10	.50		.01		.10	.20		.40		.30	.40		.60	.20	.11	.13	.09				3.24
Granite Falls	Puget Sound	.14							.10		.40	.13		.06	.16	.38	.02		.60	.03				1.28	.67	.64	.22	.33	.15				5.33
Hatton	Columbia									T.			.11	.20				.18			.08		T.	.15			.05	.03					0.80
Huntsville	...do									.15	.80		.05	.57	.64			.36			.16		.15	.45			.48	.09	.10				4.00
Irene Mountain	...do												.01		.07			1.10			.05	.04			.06								1.33
Kennewick	...do												.12				.30			.10				.20	.25			.01	T.				0.98
Kettle Falls	...do										T.	T.		.09	T.			.04			.03			.08	.30	.22		.02	.15				0.93
Kiona	Yakima													.05	.11			.15	.03				.04	.05		.02							0.45
Kosmos	Columbia	.22	.11							.24	.06	.06	.39	1.16	.17	.10	.15	*	.71	.19	.49	.40	.05	.09	1.00	.46	1.00	.87	.94				8.86
La Center	...do									.92	.20	.16	.20	1.31	.38	.20	.10	.55	.55		.26		.15	.50	.70	.08	.76	.57	.32				7.91
La Crosse	Palouse									T.	.06	T.	T.	.49	.46		T.	.42	T.		.20	.02	.38	.20	.09	.05	.10	.18	.31				2.96
Lake Clealum	Yakima	.01								T.	.12	.08	.38	1.43	.81	.28	.13	.51	.24		.54	.05		1.02	.51	1.14	1.56	.67	1.22				10.71
Lake Kachess	...do	.10								.10		.10	.70	1.20	.50	1.10	.20	.80	.50		1.00	.20		2.00	1.00	1.10	1.60	.79	.80				13.79
Lake Keechelus	...do						.20			.20	.60		1.00	.80	.40			1.30			1.40	1.20		2.30	1.20	1.00	1.20	1.00	1.20				15.00
Lakeside	Columbia									T.		.05	.18	.03			.02	.03			.06	T.		T.	.10		T.	.03	.42				0.92
Laurel	...do									.05		.50	.32	.25	.15	.01	.03	.35	.15	.22	.07	.10	.24	.78	.68	.55	.35	1.10	.51				6.41
Laurier	Kettle																																
Lester	Puget Sound	.40								.10			.75	.30	.40	.15		.90	.15		.40	.75		1.70	.90	.70	.70	1.95	.55				10.80
Lone Tree	Coast	.02				.16				.34	.03		.82	.10	.28	.08	.28	.74	.04		.62	.06		1.50	.76	.06	1.45	1.09	.10				8.53
Longmiresprings	Puget Sound																																
Lost Creek	Columbia													.10				.25			.10				.10								0.55
Lyle	...do																																
McCumbers Ranch	...do								.10		.40	.60	.60	.20			.30	.20	.20		.10	.60	.20	.60									4.10
Mottinger	...do								T.				.05	.05	.20			.17		.10			.13				.03	T.					0.73
Mount Pleasant	...do									.45	.04	.35	.20	1.75	.28	.08		.60	.20	.33	.30	.20	T.	.60	1.00	.30	.60	.77	.85				8.90
Moxee	Yakima											.25	.19	.09	.04			T.	T.	T.	.16			T.	.07	.01							0.81
Newport	Pend d'Oreille									T.	.09		T.	.14	.15	T.		.29	T.	T.	.08	.28		.32	.42		.40	T.	.22				2.39
North Head	Coast					.18				.22	.11		.77	.24	.05	.01	.52	.21	.21	.11	.04		.34	.52	.58	.25	.96	.50	.93				6.75
Northport	Columbia										.06			.06	.10			.15			.20	.18		.03	.22		.05						1.05
North Yakima	Yakima									T.		.08	.24	.11	.03	T.	T.	T.	T.	.04		T.	T.	.06	.05	.02	T.	T.	.01				0.64
Nutland	Columbia	.09							.34			.03		.04	.05			.12	.10		.26				.10	.12	.06		.10				1.41
Odessa	...do																																
Olga	Puget Sound					T.				T.			.21	.09			.26	.20			.20			.57		.17	.23	1.62	.19				3.74
Olympia	...do					T.	.02			.15	.02	.09	.16	.58	.06		.03	.42	.07		.07	T.		1.35	1.80	.74	1.39	.90	1.32				9.17
Omak	Okanogan										T.				.05			.01	.03		.04	.03			.04	.05							0.25
Oroville	...do											.02	.10	.08	.25	.60		.20							.02								1.27
Peola	Snake									.01	.22	.02	.02	.26	.65	.16		.30	.22	.12	.41	.43	.09	.31	.18	.19	.28	.11	.40				4.38
Pomeroy	...do						T.				.10		.05	.70	.20		.10	.20	.30		.10		.20	1.00	.05	T.	T.	.10	.70				3.80
Port Crescent	Coast					T.	T.			.04	.04	.01	.32		.02		.02	.43		T.	.16	.04	.15	.78	1.52	.07	.25	1.10	.37				5.32

TABLE 2.—*Daily precipitation for February, 1910. District No. 12*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Washington—Cont'd.																																	
Port Townsend	Puget Sound	T.										.05	.03	.04	.55	.54	T.	.02				.18	.02	.01	.03		.02	.19	.08				1.76
Pullman	Palouse												T.	.50				.40			.10	.05	.05	.50			.60		.20				2.40
Quinault	Coast	.04	.01			.42	.02	.01	T.	.45	.05	.01	.53	.71	.14	.05	.16	.60		.01	.05		.02	2.62	1.30	.72	3.10	3.30	.53				14.85
Republic	Kettle									T.		T.	T.	.05	T.			.25			.10	T.			.20				T.				0.60
Rex Creek	Columbia																																
Ritzville	...do									.01			.13	.15	.09		.06	.04	.05					.05			.03	.06					0.67
Rock Lake	Palouse										.10		.10		.23			.18	.07		.04			.17	.06		T.		.15				1.03
Rosalia	...do												.04	.46	.50			.08	.07		.15			.45	.10		.14	.05	.18				2.22
Russells Ranch	Yakima																																
Scenic Hot Springs	King																																
Seattle	Puget Sound	T.				.01				.11	.01		.29	.24	.07	.06	.16	.18	T.	T.	.11	.01	.16	.80	1.31	.02	.15	1.25	.09				5.03
Sedro-Woolley	...do					.04				.15			.07	.47	.04		.08	.46						1.23	.01		.64	1.00	.47				4.66
Sixprong	Columbia												.12	.01	.09			.08	.06	.24			.08	.17	.06	.08		.02	T.				1.01
Skagit Power Dam	Puget Sound																																
Snohomish	...do	.15				T.	.02			.21	.15	.01	.10	.09		.45	.03	.50	.02		.23	.01		.50	.75	.26	.10	.47	.15				4.20
Snoqualmie Falls	...do	.29	T.					T.		.09		.07	.23	.15	.45	.26	T.	.20	.26	T.	.22	.83	.04	.45	1.85	.38	.57	1.44	.80				8.58
Snyders Ranch	Columbia											T.	.10	T.			T.	.14			.16		T.	.30	.35	.27	.26	.30	.08				1.96
South Bend	Coast	.10									1.40	.10	.30	.60	.15	.20	.15	.40	.10		.50			2.10	1.80	.70	2.50	2.10	.50				13.70
Spokane	Spokane									.02	.01	T.	.20	.10	.06		T.	.26	T.	T.	.19	.00	.08	.28	.14	.01	.02	.06	.06				1.58
State University	Puget Sound						.01			.04	.11	.01	.03	.26	.20	.08		.30	.17			.57		.53	1.00	.39	.15	.40	.87				5.12
Stokes Ranch	Columbia												T.	.26			.10	T.			.16				.60		.23	.16	.19				1.70
Sullivan Lake	Pend d'Oreille										.07			.04	.12			.05			.08			.10	.63	.11	.02						1.22
Sumner	Puget Sound	.10				.02				.20		.03	.28	.27	.20	.12	.04	.28	.22		.20	.11		.87	.95	.26	.51	1.31	.34				6.31
Sunnyside	Yakima									T.	.02		.09	.07				.07	.13				.06		.13	.01		.01					0.59
Tacoma	Puget Sound					.02				.20	.01	.01	.43	.04	.11		.16	.28	.02	.08	.06	.20	.31	.74	1.22	.18	.61	1.41	.42				6.51
Tatoosh Island	Coast					.61	.34			.42	.06		.71	.06	.05		.27	.36	T.	.01	.15	T.	T.	.59	.26	.11	.58	.86	1.03				6.47
Tieton	Yakima									T.		.08	.06	.58	.05	.21	T.	.25	.04	.13	T.	T.	.11	.39	.41		.40	.34	.26				3.31
Touchet	Columbia									.05	T.	.03	.06	.15	.23			.20	.12	.13	.06	T.	.04	.10	T.	.03		.02	T.				1.22
Touchet Ridge	...do																																
Trinidad	...do												.21	.09										10									0.40
Twisp	...do										T.	T.	.26				.01				12			30	.25				.95				1.89
Tyee	...do											.04	.34				*	.22			*	.40		*	1.46		.45	1.23					4.14
Vancouver	...do	.05				T.				.26	.06	.36	.31	1.08	.17	.06	.04	.15	.43	.05	.10	.19	.15	.46	.69	.18	.49	.29	.17				5.74
Vashon Island	Puget Sound	.12	T.			.04	.03	T.		.17	.01	.01	.33	.07	.23	.04	T.	.43	.01		.10	T.		1.06	1.39	.31	.51	1.46	.25				6.57
Wahluke	Columbia													.16		.06		.04															0.26
Wallace	Okanogan												T.	.12	.14			.08			.07	.11			.02			T.					0.54
Walla Walla	Columbia									.11		.02	.09	.30	.46		T.	.41	.35	.13	.06	T.	.22	.13	.04	.03	.29	T.	.09				2.73
Waterville	...do											T.	.30				.05	.10	T.		.15	.30		.10	T.		T.	T.	.25				1.25
Wenatchee (near)	...do									T.	T.	.02	.29	.01			.01	.14			.08	.06	T.	.19	.12	T.	.04	.12	.05				1.13
West Branch	Spokane																																
Wilbur	Columbia									T.				*	.20		T.	.30			.10												0.60
Yale	...do		T.							.65		.30	.88	2.60	.17	.52	.17	.94	.44	.13	.70	.51	1.15	1.33	1.20	.53	2.50	1.54	1.15				17.41
Zindel	Snake										.12	1.21				T.		.20	.15					.86	.22		.14						2.90
Oregon.																																	
Albany	Willamette	.06				.20	.02	T.	.02	.16		.60		.56	.90	.12	.06	.10	.14	.44	.02	.42	.20	.58	.48	.82	.18	.18	.56				6.82
Ashland	Rogue	.50								T.					.16	.05			.50	.04					.73	.03	T.	.10	.13				2.24
Astoria	Columbia	.06				.11	.02			.36	.01	.20	.58	1.04	.16	.03	.20	1.74	.21	.32	.16	.06	.02	1.93	1.43	.28	1.85	1.54	.41				12.72
Bagleys Ranch	Snake									.02	.01	.01				.02	T.	.04	.18	.03		.09			.05				.10				0.55
Baker City	...do																																
Bay City	Coast	.11				.10				.40	.10	.30	.55	2.15	.24	.20	.11	.98	.46	.12	.22	.18	.36	2.20	.92	.50	2.15	1.50	1.40				15.25
Bear Creek	Deschutes									.14		.15				.17			.27				.23		.39								1.35
Bear Valley	John Day				T.							.11		.23	.26		.14	.37	.32	.28		.10			.18								1.99
Beaver Creek	Deschutes																																
Beach Creek	John Day											.10			.29	.20	.10	.32	.13	.39		.10	.20	.27	.42	T.	.10		T.				2.62
Bellfountain	Willamette	T.			.03	.04				.25	.36	.14	.02	1.40	.35	.21		.14	.45	.06	.20	.55	.53	.78	.62	.65	.36	.66	.49				8.29
Bend	Deschutes																																
Big Basin	John Day																																
Birch Creek	...do																																
Black Butte	Willamette			.20						.10		.25			.25	.30	.05		.50		.30		.25	.15	.45	.35		.25	.75				4.15
Blalock	Columbia												.17	T.	.04			.10		.25			.10		T.	.20		T.				0.86
Blue M't'n Sawmill	Umatilla																																
Buckhorn Farm	Coast				.30	.10				.43				.20	.80				1.05	.05			1.01	.56	2.24	.43	.11	.48	.19				7.95
Buena Vista	Snake																																
Butte Falls	Rogue	.02								.28	.22	.20			.96	.15		.14	.75	.40	.04		.24	T.	1.15	.20	.30	.73	1.34				7.12
Cableville	Snake																																
California Gulch	Umatilla	1.35											.55					.33		.38	.15		.40	.15	.16	.17							3.64
Canyon City	John Day	T.								T.	T.	.03		T.	.18	.15	.05	.13	.22	.10	.08		.08	.02	.30	T.	.02		.20				1.56
Cascade Locks	Columbia	.13								.32	.12	.63	.39	2.34	.31	.29	.02	1.08	.37	.15	.68	.48	.38	.90	1.59	.46	1.69	1.05	1.43				14.81
Cascadia	Willamette									.33	.13	.28	.02	1.39	.62	.23	.14	.64	.74	.32	.24	.14	.13	.32	.56	.62	.67	.32	.59				8.43
Casedero	...do	.14				.02				.14	.11	.65	.07	1.89	.52	.21	.03	.33	.50	.16	.73	.92	.04	.38	1.31	.87	.41	.49	.83				10.75
Columbia Mine	Snake	.05								.30	.15	.45	.15		.42	.70		1.00	1.00	.40	.60	1.30	.40	.50	.75	.50	.90	.10	.60				10.27
Condon	John Day																																
Connor Creek	Snake	T.						T.		T.		.02	T.	*	*	*	*	*	*	*	.60		.10	.15	.35	.03	.28						1.53
Coquille River L. H.	Coast								.06	.39	.15			1.03	.90	.17			.09	.97	.10	.50	.40	.35	.37		.90	.74	.28				7.20
Cornucopia	Snake	.19						T.		.14	.02	.14	.10	.06	.48	.12		.47	.20	.17	.38	.29	.24	.94	1.49	.05	.59	.16	.86				7.09
Corvallis	Willamette	.31	T.			.10			T.	.35	.06	.68		.59	.90	.16	.12	.10	.30	.12	.04	.40	.28	.69	.68	.56	.31	.12	.67				7.54
Cracker Creek	Snake									.30	.20	.60	.20		.60	.80	.10	1.20	.80	.10	.50	.50	.30		.40	.20	.60		T.				7.40
Crescent	Deschutes																																
Dayville	John Day											.11		T.	.28	.02		.08	.20	.10	.37		.10		.37	T.	T.	T.	.01				1.53
Doraville	Columbia	.02			.02	T.	T.			.23	.05	.24	.41	.98	.25	.22	.07	.22	.49	.15	.34	.23	.16	.55	.71	.98	1.07	1.00	.43				8.82
Drain	Umpqua	.04			.04	.02				.28	.15			.30	.51	.15	T.	.15	.50	.08	.10	.10	.46	.16	.44	.50	.26	.53	.33				5.10
Dufur	Deschutes	T.								.07	T.	.31	.08	.22	.06	T.	.01	.02	.40	.09	.01	.02	.12	.16	.24	.17	.02	.01	T.				2.01
Duncan	Umatilla	.65													.20		.75		.80							2.00							4.40
Echo	...do									.04		.01	.03	.04	.21			.20		.30	.03			.13	.08								1.07
Elkhorn Ranch	Coast	T.			T.	.09				1.01		.45		1.40	.45	.66	T.	.45	1.30	.53	.48	.90	.48		1.10	1.20	.31	1.30	1.92				14.03
Ella	Columbia													.08	.07					.36				10	T.								0.61
Embody	Deschutes									.10	.01				.20	.10		T.	.10	.30			.10	.05	.03		.02		.04				1.05
Eugene	Willamette	T.				.05	.12			.10		.12		.39	.60	.14	.06		.08	.49		.02	.11	.37	.23	.81	.12	.17	.20				4.18
Fairview	Coast	.16				.23				.26	.24	T.		.81	1.07	.53	T.	T.	1.23	.36	.30	.34	.41	.54	.18	.25	.38	.50	1.12				8.91
Fall City	Willamette					.38				.43		.86		.29	.48	.15			.70	.10	.45	.14		2.23	1.09	.89	1.57	1.43	.41				11.60
Fir Glen	Coast	.02			.13	.05				.38	.10	.30		.13	.63	.40	T.	.35	.86	.06	.20	.20	.19	.11	.45	.85	.38	.73	.74				7.26
Florence	...do	.09			.09					.38	.07	.21	.05	1.83	.46	.43	.09	.82	1.21	.26	.05	.09	.37	.96	.79	.36	.97	.74	1.05				11.37
Forest Grove	Willamette	.09	.12							.28	.04	.66	.09	.05	1.31	.17	.05	.19	.47	.07	.06	.20	.80	.81	.82	.68	.11		.06				7.13
Fort Rock	Interior										.47					.10			.07	.03			.13		.47		.01						7.28
Galice	Rogue				.08	.03				.15	.05	.06			.44	.05	.02		.55	.03			.58	.31	1.27	.54	.13	.30	.14				4.73
Gardiner	Umpqua	.01			.10	.03				.46	.06	.26	.04	1.94	.61	.28		.24	1.28	.22	.31	.22	.45	.80	1.00	.37	.51	.58	1.08				10.85
Glendale	...do				T.						T.				.50	.80			.70	.30	T.		T.	1.20	1.30	.60	.30	.40					6.10
Glenora	Coast	.16								.44	.11	.33	.90	2.36	.42	.52	.19	.80	.42	.04	.60	.21	.24	2.50	1.64	1.12	3.79	2.78	1.30				21.16
Gold Beach	Rogue	.05			.35	.03				.67		.20		.02	1.06				1.70	.47	.08	.20	.39	.95	.46	.31	.11	.38	1.30				7.78
Granite	John Day	.12								T.	T.			.10	.25	.10	T.	.60	.35		.10	.22	.30	.12	.10	.05	.25	.10	.15				2.91
Grants Pass	Rogue	.16			.02		.02			.15					.25	T.			.28	.06	.01	.01	.51	.05	.98	.11		.07	.02				2.70
Grass Valley	John Day								.10					.04						.50					.09			.60				1.33
Greenhorn	Snake	.08				T.			T.	.10	.02	.16	.02	.04	.57	.40	.06	.33	.55	.14	.27	.38	.21	.70	.66	.15	.42	.04	.50				5.81
Greenleaf	Coast				.13	.13				.44	.24	.42	.04	1.09	.46	.34		.64	1.03	.09	.30	.68	.78	1.59	1.59	.84	*	3.11	.78				15.27

TABLE 2.—*Daily precipitation for February, 1910. District No. 12*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Oregon—Cont'd.																																	
Grindstone	Deschutes											.10	.10			.23	.40	.06	.20				.24		.43	.02	.30	.05	.17				2.30
Gumboot	Snake	.13								T.	T.	T.	T.	.07	.08	T.		T.	.23	.13	T.	.25	.08	T.	.72	.19	.19	T.	.25				2.32
Gurdane	Columbia								T.			.50		T.	T.	.20		.10	.25	.20	.20	.20	.10	T.	.65	T.	T.	T.					2.40
Happy Home	Umpqua	.37				.42				.94	.42	.23		.38	1.30	.70	.24	T.	.80	.30	.08		.97	1.12	1.44	1.12	.32	.54	.62				12.31
Hay Creek	Deschutes									T.		.02			.11	.05	T.	T.	.20	.03			.10		.06	.03			.02				0.62
Hazeldell	Willamette	.20			T.				T.	.30	.57			.27	.10	.40	T.	.14	.44	T.	T.	T.	.40	.40	.44	.33	.43	.65	.61				6.13
Head Works	do					.05				.40	.03	.60	.10	2.42	.60	.38	.07	.90	.60	.09	.90	.38	.19	.40	.93	.73	.63	.60	1.40				12.43
Heppner	Columbia					T.				.03		.13		.01	.06			.08	.03		.03	T.	.01	T.	.20	.07	.01	T.	.02				0.68
Hermiston	Umatilla									.02		T.	.02	.03	.16			.09		.24	.05		.05	.03									0.69
Hilgard	Grande Ronde									.01	T.	.15			.30	.20		.45	.10	T.	.50	.60	.10	.10	T.	.10	.60		.10				3.31
Hood River	Columbia									.05		.70	1.00	.20	.10	.40	.10	.25	.05	.05				.90		.25		.50				4.55
Hoover	Willamette	.40				.05				.10	.17	.55	.50	1.23	.65	.70	.50	.67	.73	.22	.50	.77	1.02	.57	1.30	1.07	1.09	1.70	1.30				15.69
Howardville Station	Grande Ronde									.07	.08	.14	.16	.10	.78	.21	.02	.75	.15	.21	.55	.60	.12	.55	.35	.28	.50	.16	.44				6.22
Huntington	Snake																	.20							.25								0.45
Ibex Mine	John Day	.10				T.		T.		.12	.08	.31	.18		.51	.63	.04	.61	.50	.36	.32	.40	.15	.34	.61	.14	.61	.07	.38				6.46
Ironside	Snake														.18				.41	.45	T.		.50	T.	.25								1.79
Jacksonville	Rogue										T.				.30				.76	.10			.07		.95		.11	.25	.15				2.69
Joseph	Grande Ronde														.40	.30			.50		.20				.20	.20	.10	.20	.20				2.30
Kamela	do	.40								.10	.10	.50		.20	1.10	.20	.50	.50			1.40	1.40	.20	.10	.20	.10	.80	.40	.40				8.60
La Grande	do									.04	.10	.04	.04	T.	.18	.13	T.	.70	.16	.08	.26	.18	.08	.13	.02		.62		.10				2.86
Lilyglen	Rogue		T.							.06					.55	.11		.11	.74	.28	.24		.14		.10	.10	.12	.46	.51				3.46
Long Creek	John Day	T.													T.	.02	.42	.10	.20	.10	.20	.10	T.	.01	.75	.02	.08	.01	T.				2.01
Madras	Deschutes																																
Maury	do					T.				.21		.24			T.	.51		.20	.40				.80		.45			.25	.08				3.14
McKinzie Bridge	Willamette	.05		.03			T.			.38	.18	.50	.06	.78	.45	.23	.25	1.13	1.12	.30	.42	.28	.30	.30	.83	1.04	.69	1.47	1.43				11.31
McMinnville	do					.02				.17	.19	.50	.01	1.08	.21	.22	T.	.16	.53	.02	.10	.08	.22	.21	.65	.41	.95	.80	.25				6.78
Meacham	Umatilla										.40		.33			.56	.11	.78	.16		1.55	1.43				.30	1.10	1.30					8.06
Metolius	Deschutes	T.								T.	T.	.39	T.			.35		T.	.76		T.	.02	.25	.14	.35	.28	.22	.33	.32				3.41
Mikkalo	John Day											.15	.04	T.		.04		.05	.20	.29			.08		.16	.10							1.11
Miller Prairie	Columbia																																
Miramonte Farm	Willamette	.04									.05	.48	.03	1.11	.30	.12	.02	.10	.49	.02	.20	.09	.12	.36	.57	.39	.40	1.20	.19				6.37
Monroe	do	.25								.20	.30	.10		.94	.63	.21	T.	.03	.45	.05	.10	.30	1.28	T.	.83	.41	.40	.71	.13				7.32
Mountainhome	Columbia	.28				.15				.19		.36	.38	1.21	.10	.21	.10	.31	.38	.12	.33	.22	.28	1.02	1.16	1.05	1.73	1.20	.60				11.38
Mount Angel	Willamette							.16		.05	.78		1.25	.65	.33	T.			.63		.40	.17	.22	.40	.62	.65	.18	.60	.46				7.55
Mount Hood	Columbia									.14	T.	.43	.15	.80	.12	.31		.25	.65	T.	.29	.11	.56	.33	.85	.44	.55	.49	.30				6.77
Mountain Park	do	.07				T.		T.		.39	.10	1.10	.25	1.37	.33	.16	.12	.60	.75	.15	.13	.12	.34	1.10	1.38	.68	1.00	1.03	.94				12.11
Mountain Ranch	Rogue				.05					.10					.57	T.			.79	.22			.43	.13	1.80	.55	.02	.17	.29				5.12
Musick	Umpqua	.16			.30					.48	.34	.19		.28	1.00	1.17	.17	.28	.29	.48	.26	.21	.26	.35	1.36	.71	.60	.73	.82				10.44
Newport	Coast				.03					.31	.20	.08	.02	1.64	.15	.08	.04	.70	.55	.09	.06	.16	.22	.60	.45	.10	1.60	.80	.62				8.50
Nigger Flat	Malheur																																
Ochoco	Deschutes	.15							.12		T.				T.	.37		T.	.62		.08		.20		.21	T.	.18	T.	.20				2.13
Ochoco Creek	do					.03				.11		.12			.03	.12			.04	.53	T.		.18		.15	.06	.03		.20				1.60
Owyhee	Owyhee									.10					.01			.06		.46			.12				.10						0.85
Pendleton	Umatilla																																
Persist	Rogue				.10					.36	.13					.72	.16		.16	.27			.80	.46	.10	1.57	.12	.33	.69				5.97
Pilot Rock	Umatilla									.04		.07	.03	.01	.16		.01	.03	.09	.22	.02		.27	.04	.12	.07							1.18
Pompeii	Willamette	.25								.25	.11	.64	.15	1.24	.68	.64	.06	1.08	.68	.21	.98	.69	.22	.88	.98	1.13	1.48	.70	1.50				14.53
Portland	do					T.				.28	.24	.18	.47	1.04	.12	.07	.10	.07	.66	.02	.23	.05	.07	.40	.73	.03	.62	.59	.48				6.45
Post	Deschutes					T.				T.		.04			.08	.04		.08	.18	T.	T.		.15		.24	.05		.09					0.95
Power House	Walla Walla																																
Prineville	Deschutes																																
Prospect	Rogue				T.					.50	.60	.40			.50	.50		.30	.90	.50			.20		1.30		.50	1.10	1.60				8.90
Rager Creek	Deschutes	.10								.13		.20			.30			.56	.83				.41		.25	.13		1.00					3.91
Ramsey	Columbia	.02								.09	.05	.30	.12	.20	.10	.03	.07	.06	.35	.15	T.	T.	.12	.17	.20	.25			.05				2.33
Range	John Day	.20								.10		.10	.10	.10	.40	.30	.80	.30	.60	.40	.20	.10			T.	.10	.60	.10	T.				4.50
Ray Creek	Columbia											.12		.13				.08	.47				.08			.10							0.98
Reston	Umpqua	.01			.05	.10				.26	.06	.26		.21	.73	.94		.18	.73	.03	.10	.05	.30	.16	.41	.70	.36	.65	.31				6.60
Richland	Snake	.05						T.		T.		.15	.10					.30	.30	.20			.10										1.20
Riverdale Ranch	Deschutes																																
Riverside	Malheur																																
Rock Creek	Willamette				.06	.20					.54	T.	.48	1.21		1.24	.04	.33	.61	.39	.51	.29	.50	1.69	1.53	.82	1.38	1.41	1.23				14.46
Roseburg	Umpqua				.03				.06	.09	.11			.06	.32	.03	T.	.01	.51	.01	T.		.18	.08	.49	.09	.12	.17	.08				2.44
Rosland	Deschutes					T.				T.	.45	.25	.20		.30	.53			.29		T.	.20	.05		.39	.27		.45					3.38
Salem	Willamette					.07				.18	.10	.50	T.	1.00	.38	.17	T.	.02	.42	T.	.04	.12	.20	.38	.60	.32	.20	.18	.04				4.92
Seneca	Interior	.02													.10	.20		.27	.24			.20	.10	T.	.17		.12	.10	T.				1.52
Siskiyou	Rogue	.01								.16	.04				.36	.04		T.	.53	.46	.08		.79	.02	1.16	.09		.14	.35				4.23
Sisters	Deschutes	.02										.21				.28				.50			.16	.02	.11	.10	.02	.30	.30				2.02
Sparta	Snake							.30				.20	.30		.20				1.20	.40	.60	.30	.10	.80	.20	.20	.60	.07	.30				5.77
Stafford	Willamette	.02		.01	.01	.01			.35	.07	.49	.04		1.30	.49	.09	.08	.18	.65	.08		.16		.70	.84	.90	.75	1.21	.25				8.68
Starkey	Grande Ronde									.30					.20	.10	.60	T.			.40		.20	.30	.20			.30					2.60
Summit	Willamette	.01			.05	.04				.24	.32	.26	.02	1.63	.30	.35	.03	.42	.54	.11	.28	.80	.11	.85	1.10	.65	.76	.60	.78				10.25
Summit Prairie	Deschutes									.08	.05	.06			.06	.18	.04	.12	.34	.12	T.		.21		.35		.11	.08	.11				1.91
Susanville	John Day	.15								T.	.10	.20			.24	.22	T.	.50	.30	.06	.25	.02	.06	.05	.50	T.	.27						2.92
Tamarack	do									T.		T.		.33			T.		.27	.33	T.		.14	.40					.12			1.59
Telocaset	Snake																																
The Dalles	Columbia									.05		.37	.15	.09	.07	.10		.20	.32	.36		.14		.12	.30	.21	.13		.06				2.67
The Heads	Coast																																
Tinroof Cabin	Umatilla	.35								.05		.10			.15	.30		1.00	.40		.35	.40	.20			.15	.70						4.15
Toledo	Coast									.40	.20	.10		1.05	.25	.30	.20	.60	1.00	1.50	.30	.30	.50	.50	.60	.40	2.00	1.05	.70				11.95
Trask	do									.48	.18		.90	2.43			1.05	1.04	.48				2.00	2.00	.25	.90	2.60	3.40	1.90				19.61
Umatilla	Columbia									T.			.01	.10				.29	.12	.10			.17		.11		.02						0.92
Unity	Snake														.04	.12		.17	.28		.06		.08		.14	.09	.12		.05				1.15
Vale	Malheur	T.								.04					.18				.14	.25				.01	.07		.19		T.				0.88
Van	do									.10		T.			.25			.13	.27	.14	T.		.15		.33		.10	.25					1.72
Wallace Orchard	Willamette									.18	.14	.41		1.08	.41	.16	.02		.42	.04	.13	.14	.14	.75	.63	.39	.25	.40	.08				5.77
Walloupa	Grande Ronde									.02	.01	.10	.07	T.	.87	.09	T.	.38	.09	.17	.23	.35	.05	.54	T.	.31	.41	.03	T.				3.72
Wallowa	do									T.	.05	.11	T.	.01	.32	.08	T.	.39	.10	.21	.04	.16	.03	.15	.06	.15	.12	.01	.21				2.20
Wamic	Deschutes											.35	.30			.32		.35	.20	T.	.20		.14		.38		.35	T.					2.59
Warmspring	do									T.									.42				.07				.05	.09					0.63
Wasco	Columbia									.08		.10	.10		.15			.10	.25	.60			.15		.08	.11							1.72
Welches	Umatilla			.20					.05	.05	.50	.40	.60	1.35	.02	.02		1.35	.45	.09	.35	1.30	.45	.92	1.44	1.22	1.47	.61	1.65				14.49
Weneha Springs	do	T.								T.	.40	T.	T.	.06	.70	.18		.51	.10	.08	.60	.20	T.	T.	.30	.20	.50	.20	.25				4.28
Weston	Walla Walla									.10				.25	.50			.30	.15	.45		.10	.25	.25	.10	.60	T.	T.					3.05
Willamina	Willamette																																
Williams	Rogue																																

TABLE 3.—*Maximum and minimum temperatures at selected stations for February, 1910. District No. 12, Columbia Valley.*

Date.	Montana.						Idaho.																			
	Kalispell.		Missoula.		Afton, Wyo.		Boise.		Bonners Ferry.		Hotspring.		Lewiston.		Mackay §§		Meadows.		Pocatello.		Salmon.		Shoshone.		Vernon.		Wallace.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	31	17	35	19	42	12	30	21	33	28	45	25	38	22	12	8	30	7	41	17	.....	.....	34	19	29	11	30	10
2...	26	7	25	5	38	− 2	26	10	29	0	35	15	30	17	15	0	24	− 5	20	3	.....	.....	22	− 1	24	3	21	2
3...	28	10	30	8	11	−24	28	9	29	9	32	8	35	17	18	− 6	25	−17	20	−12	.....	.....	18	− 8	15	−14	26	7
4...	32	6	31	6	7	−30	31	8	34	4	37	9	38	21	17	−12	24	−17	23	−11	.....	.....	25	0	19	−12	26	6
5...	22	9	27	6	11	−24	27	11	34	5	30	10	35	22	18	− 8	31	− 5	25	− 5	.....	.....	25	1	20	− 5	31	10
6...	28	19	40	14	18	−19	35	12	34	15	30	9	45	27	26	− 2	29	− 8	24	− 7	.....	.....	27	− 1	23	− 9	33	26
7...	37	18	34	17	20	−18	26	17	42	15	34	20	41	29	13	− 4	28	2	28	2	.....	.....	29	11	25	− 2	36	21
8...	29	12	37	20	24	− 5	36	13	38	11	34	6	42	28	21	− 1	31	9	29	15	.....	.....	26	18	23	2	36	23
9...	32	22	34	18	28	− 3	29	17	38	15	35	12	43	32	24	− 6	34	14	28	12	.....	.....	30	12	29	5	37	19
10...	37	26	40	27	30	10	34	22	37	26	42	25	45	32	20	4	32	20	30	21	.....	.....	33	22	25	13	34	27
11...	32	17	32	18	27	11	36	26	36	16	44	29	41	32	43	9	33	17	32	23	.....	.....	37	20	27	17	32	19
12...	30	14	39	24	40	16	38	26	36	19	44	24	42	29	26	2	31	17	38	18	.....	.....	32	20	26	16	36	17
13...	36	24	39	30	42	25	54	33	34	24	46	37	40	35	41	11	35	27	51	23	.....	.....	45	23	37	14	38	31
14...	30	6	34	23	45	20	50	29	35	18	56	33	42	33	38	18	41	25	51	22	.....	.....	41	27	39	22	33	27
15...	15	− 2	27	8	27	9	32	22	25	2	45	15	36	23	22	4	29	10	24	13	.....	.....	28	17	24	7	28	16
16...	10	−12	15	− 4	15	−17	28	15	18	− 6	41	11	31	17	13	− 5	25	− 2	19	8	.....	.....	23	1	10	−16	22	− 1
17...	17	4	16	4	22	− 6	30	21	22	0	40	16	34	25	14	− 7	21	3	24	13	.....	.....	22	4	11	−16	28	14
18...	21	11	28	14	28	8	36	17	38	− 4	38	19	36	28	16	6	30	2	29	13	.....	.....	29	11	18	1	29	18
19...	26	11	32	18	30	10	33	18	32	− 4	40	26	36	23	22	5	34	14	29	22	.....	.....	31	20	30	15	28	7
20...	14	− 1	20	14	23	4	36	18	25	14	41	19	31	23	27	6	34	11	33	18	.....	.....	34	6	25	7	28	16
21...	− 1	−13	15	0	28	9	40	26	26	− 5	50	22	39	11	34	1	31	22	33	23	.....	.....	35	15	24	14	27	7
22...	− 1	−22	1	−14	34	14	33	21	18	− 8	40	23	21	8	31	4	27	5	33	18	.....	.....	30	11	24	10	12	−12
23...	9	− 2	16	− 1	33	16	43	25	9	−18	45	19	28	16	33	3	35	23	40	32	.....	.....	31	20	30	19	23	10
24...	32	9	44	15	40	14	52	42	15	0	47	37	44	25	32	6	36	32	49	34	.....	.....	42	30	40	29	42	22
25...	38	26	37	29	43	30	45	34	33	10	53	36	47	37	31	22	38	32	42	27	.....	.....	42	33	36	30	41	32
26...	33	20	40	22	28	0	38	30	40	26	50	29	48	36	29	11	33	24	35	24	.....	.....	39	16	31	− 2	37	26
27...	42	30	42	33	41	19	46	35	43	30	56	34	54	38	40	7	38	28	44	31	.....	.....	43	29	33	23	40	33
28...	39	27	40	29	45	27	52	39	43	30	52	44	54	37	39	9	40	29	47	33	.....	.....	43	35	35	30	39	32
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	25.9	10.5	30.4	14.4	28.6	3.7	36.6	22.0	31.3	9.7	42.2	21.9	39.1	25.8	25.5	3.0	31.4	11.4	32.9	15.4	.....	.....	32.0	14.9	26.1	7.6	31.2	16.6

Date.	Washington.																									
	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Sisprong.		Spokane.		Tacoma.		Tatoosh Island.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	41	24	39	26	35	11	36	23	34	17	43	31	42	26	.....	.....	39	23	38	30	42	29	34	23	40	30	40	32
2...	41	26	37	24	30	5	35	20	27	12	44	32	38	18	.....	.....	37	24	40	26	36	19	30	16	40	23	38	35
3...	47	28	44	26	36	15	35	22	28	12	50	36	38	11	.....	.....	40	27	47	28	38	17	34	19	45	26	42	37
4...	47	27	44	24	33	5	35	21	29	11	52	36	37	16	.....	.....	40	25	46	29	37	12	35	19	44	25	47	37
5...	46	32	41	29	34	6	35	32	29	16	44	38	38	22	.....	.....	44	31	48	36	34	19	39	20	46	34	45	35
6...	48	34	42	36	38	11	37	29	34	18	53	41	40	21	.....	.....	45	34	50	39	37	22	44	30	47	35	46	42
7...	50	32	50	31	42	19	45	30	40	25	50	38	43	29	.....	.....	45	39	48	40	37	27	42	27	48	37	49	43
8...	51	31	48	31	38	19	39	25	33	17	54	38	44	20	.....	.....	42	31	50	32	38	26	36	27	51	30	47	40
9...	49	35	44	31	36	18	39	32	34	19	46	38	38	24	.....	.....	48	33	44	37	37	25	38	28	44	35	47	38
10...	42	32	44	31	38	28	38	32	33	20	42	38	42	24	.....	.....	43	30	44	38	42	30	34	27	44	36	43	38
11...	45	33	45	30	39	25	38	33	38	25	46	35	44	30	.....	.....	44	32	44	37	38	32	37	26	44	35	43	36
12...	47	34	43	29	33	20	39	33	30	22	46	38	38	31	.....	.....	44	33	48	34	37	31	37	23	48	32	46	36
13...	47	33	44	31	36	28	37	32	36	24	42	34	42	26	.....	.....	43	32	48	36	41	30	40	32	45	35	43	38
14...	41	31	40	29	35	27	37	31	41	22	41	34	44	30	.....	.....	40	31	40	33	42	32	36	25	41	32	40	35
15...	41	31	38	26	32	6	40	31	29	19	43	34	40	22	.....	.....	38	29	38	31	37	22	31	18	40	31	39	35
16...	35	31	36	27	25	0	32	25	22	11	43	23	29	19	.....	.....	35	30	25	28	35	21	23	12	36	28	38	33
17...	45	34	35	27	30	10	36	30	27	14	45	38	33	21	.....	.....	41	32	43	22	34	23	24	17	45	33	44	35
18...	41	33	42	14	30	− 6	35	31	25	13	41	35	29	23	.....	.....	38	30	42	36	27	24	26	9	41	34	40	38
19...	41	27	45	13	30	− 5	35	32	28	10	45	32	38	16	.....	.....	39	29	43	33	33	23	28	6	41	30	39	35
20...	48	34	38	27	31	10	37	32	26	17	44	27	40	21	.....	.....	43	24	42	31	40	20	28	15	42	33	41	34
21...	36	29	23	14	27	5	36	30	25	9	42	34	27	21	.....	.....	24	16	31	24	36	19	22	0	35	26	34	25
22...	34	29	28	16	14	− 9	31	22	16	7	42	30	22	13	.....	.....	30	20	32	25	19	13	12	− 4	32	25	31	26
23...	48	31	29	23	23	2	35	16	20	11	47	42	26	14	.....	.....	35	26	46	26	23	8	19	9	46	28	45	29
24...	52	39	49	36	27	13	36	32	29	15	49	41	35	20	.....	.....	47	34	50	39	32	17	42	19	49	40	47	37
25...	46	36	44	36	43	24	36	32	44	15	46	37	47	28	.....	.....	43	33	43	37	36	29	38	31	43	35	42	36
26...	48	36	45	35	42	25	35	32	41	31	48	41	54	30	.....	.....	49	34	47	36	47	34	40	32	47	39	46	39
27...	46	38	45	39	48	35	38	34	50	33	47	40	57	38	.....	.....	44	35	47	39	48	36	44	35	47	40	45	36
28...	48	37	41	37	43	27	37	33	44	32	46	38	50	36	.....	.....	40	33	44	36	50	40	40	34	48	35	47	36
29...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	44.7	32.1	40.8	27.8	33.9	13.4	36.6	28.8	31.9	17.8	45.8	36.4	39.1	23.?	.....	.....	40.7	29.6	43.5	33.1	36.9	24.3	33.3	20.5	43.5	32.2	42.6	35.6

TABLE 3.—*Maximum and minimum temperatures at selected stations for February, 1910. District No. 12*—Continued.

Oregon.

Date.	Walla Walla, Wash.		Ashland.		Baker City.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.		The Dalles.		Vale.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	32	16	35	21			38	25			40	26	35	21	38	27			38	23	39	26	36	12
2	29	13	41	22			37	21			35	14	44	23	34	16			41	21	34	9	32	3
3	32	11	44	26			34	15			34	13	37	14	37	15			37	16	37	11	37	6
4	33	21	41	31			35	22			37	14	37	15	37	15			37	16	37	11	37	6
5	32	21	38	33			32	22			36	11	36	11	36	11			36	11	36	11	36	11
6	34	22	47	31			44	22	51	32	40	15	44	16	41	16			44	16	41	16	41	16
7	36	27	50	38			46	32	53	36	46	22	50	22	46	22			46	22	46	22	46	22
8	37	34	49	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
9	36	34	49	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
10	43	36	49	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
11	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
12	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
13	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
14	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
15	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
16	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
17	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
18	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
19	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
20	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
21	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
22	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
23	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
24	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
25	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
26	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
27	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
28	46	36	51	36			46	32	54	36	46	22	50	22	46	22			46	22	46	22	46	22
Means	37.0	24.6	47.3	32.8			44.6	32.6	51.2	30.2	39.2	23.5	50.3	38.1	44.5	34.1			49.8	35.8	41.2	28.0	35.0	12.9

PAPERS ON CLIMATOLOGY IN RELATION TO AGRICULTURE, TRANSPORTATION, WATER RESOURCES, ETC.

STUDIES ON THE PHENOMENA OF THE EVAPORATION OF WATER OVER LAKES AND RESERVOIRS.

By Prof. FRANK H. BIGELOW.

V.—PROGRESS OF THE WORK IN 1909 AT SALTON SEA AND OTHER STATIONS IN THE WEST AND EAST.

REVIEW OF THE CAMPAIGN.

Sufficient progress has been made in the research into the laws of evaporation over lakes and reservoirs to make it proper to give an account of the main points, preliminary to the full report, which will be issued by the United States Weather Bureau in 1911. In 1907 a short series of observations was made at Reno, Nev., August 1 to September 15, designed to bring out the problems to be studied and the difficulties to be encountered. Towers were erected at the reservoir and pans were placed on them at different parts of the vapor blanket covering the water and thinning out upward and horizontally. This method admits the study of the wind effect, which depends upon the velocity of the wind, a study of the vapor pressure effect depending upon the density of the vapor at the pan, the effect of the size of the pan upon evaporation, and the form of the function to be used for the water vapor pressure. The amount of evaporation depends upon these four factors, besides the rate of diffusion of the vapor into partly saturated air, and, since none of these forms were known at the outset, it has proved to be a very troublesome research to secure a footing. Not knowing any of the terms exactly, it was not easy to disentangle any one from the others, and it has required a very large amount of trial computations on a broad plan to accomplish our purpose, namely, secure a formula which should unite together in one system of constants stations located in arid and moist climates, in all longitudes and latitudes, at the sea level and on the Rocky Mountain Plateau, where the barometric pressure is reduced considerably. The Reno computations indicated that a formula of a different type was demanded from the simple Dalton formula, depending upon the difference between the vapor pressures of the water surface e_s and the vapor pressure e_d, at the dew-point temperature d. It showed that pans evaporate at very different rates only a few feet distant from each other, and that a large body of water loses only about seven-tenths the amount of a small pan set in a dry place outside its vapor sheet.

In 1907, October–November, a preliminary series of observations was made at Indio Station on five pans at the same place, slightly differing in environment. In 1908, July–November, a series was made at Indio and another at Mecca, using a 6-foot pan on the ground and a 2-foot pan raised 10 feet above the ground. The purpose of this work was to study the wind effect. During the winter 1908-1909 the main camp was established at the Salton Sea, consisting of 4 heavy towers, one on the land and three in the water, besides the necessary wharf for boat landing and suitable quarters for the men. Tower No. 1 is located on the bluff 1,500 feet from the water, and has platforms 10 feet apart up to 40 feet to carry the pans, so that there are five 2-foot pans; Tower No. 2 is near the trestle of the Southern Pacific Railroad, about 500 feet from the shore; Tower No. 3 is about three-fourths of a mile west of the trestle in 40 feet of water; and Tower No. 4 is about 1½ mile west of Tower No. 2, in 55 feet of water. The last tower was driven into the bottom about 20 feet and the entire structure is 120 feet high, and strong enough to resist the storms, which at times are severe. They are as stiff as possible, but there is a slight pendulum motion, even in quiet weather, so that the water in the pans must be damped in its oscillations by submerged partitions. The construction work was very efficiently done by the Mercereau Bridge Company, of Los Angeles, under the careful supervision of A. B. Wollaber, official of the Weather Bureau.

Auxiliary stations were established on 2-pan stands at Mammoth, Brawley, Mecca, and Indio, in the neighborhood of the Salton Sea; near Phoenix, Eagle, Carlsbad, at low elevations, in Arizona and New Mexico; at Mitchell, Powell, Rupert, Boise, Hermiston, North Yakima, Klamath Falls, Fallon, Lake Tahoe, on the Rocky Mountain Plateau, up to an elevation of 6,000 feet; at Birmingham, Cincinnati, Tupper Lake, Lockport, in the districts east of the Mississippi River. We have received numerous observations from all stations except Powell, Lockport, Tupper Lake, where it did not prove to be practicable to secure observers who could make the necessary routine records. The regular hours of observation are 2 a. m., 6 a. m., 10 a. m., 2 p. m., 6 p. m., and 10 p. m. In certain cases the records were made at 6 a. m and 2 p. m., the hours of minimum and maximum evaporation, respectively, from which very accurate values of the coefficients can be computed.

In the spring of 1909 Prof. C. F. Marvin published a critical review[1] of the Reno formula, and a modification of the Dalton formula as his substitute for both, though his paper was merely speculative, not having tested the formulas by application to the observations. A suitable description of certain pieces of apparatus for the measurement of evaporation was published, and these have been carefully examined at the Salton Sea, with the general results to be indicated.

INSTRUMENTS FOR MEASURING WATER HEIGHTS IN PANS.

It will be remembered in computing the C-coefficient from the Reno observations that generally for the 2-foot pans on the towers there was a good agreement, while for the 6-foot pans floating in the water or standing on the ground there was a discontinuity in the ratio 0.070 to 0.056 for these coefficients. This outstanding problem remained to be solved at a later time. Professor Marvin inferred that it was to be ascribed to inadequate observations and to an incorrect formula. It is true that our observations were made under difficulties, for lack of the desired instrumental equipment, which was received from Washington at the end of the time set for the series, but we secured the necessary apparatus from the local Weather Bureau, the University of Nevada, and the city stores. Neither of these conjectures proves to be correct, as is readily proven by the great mass of our observations at other stations. However, a number of pieces of apparatus were made up at Washington by Professor Marvin, and they have been tested at the Salton Sea by Mr. B. C. Kadel, in charge of the field work at that camp. Professor Bigelow was at the Salton Sea in May and June, 1909, and was fully conversant of all the facts. The purpose of this apparatus was to secure a more accurate measure of the water height in pans and a method of reading that could be readily employed by unskilled observers.

The tipping bucket self-register.—This is an excellent apparatus, and it has been in successful operation for several months at the Salton Sea, near Tower No. 1, on the land near the house. Daily readings are made automatically in a 4-foot pan by the register, and in a 2-foot pan alongside by the plain burette tube. The ratios are quite steady and satisfactory as a check upon each instrument. The construction of the electric control lever is such that the pan, with its siphon to the float-chamber, must be very steadily installed. It would not be likely to operate well if it were placed on a sea tower where there is considerable surging motion in the pan, and it would be impracticable to utilize it on a floating raft carrying a pan. A second self-register has been installed at the United States Weather Bureau,

[1] Monthly Weather Review, February, 1909; April, 1909; May, 1909.

Los Angeles, to register evaporation losses during fogs and rainy weather.

The dial float-gage.—This apparatus was designed to facilitate the ready reading of the fall of water from one level to another, by transforming the vertical height through the wheel work into a finger motion on the dial. The float is located on the outside of the pan and connects by a siphon with the water at the center near the bottom. Two copies were made up and placed on pans near the water on the sea Towers No. 2 and No. 4. As it is impossible to float pans in the waves of the Salton Sea without introducing large rafts and breakwaters which would make the conditions of evaporation very artificial, the lower pans have been suspended on a frame which can be lowered or raised according to the state of the water. They swing usually less than 2 feet from the water surface and evaporate into the same vapor pressure as that covering the sea in the lower levels of the atmosphere. In the wind these pans have some pendulum motion, and for this reason the water surges back and forth through the siphon, since the float chamber is alternately higher and lower than the normal level of the water every few seconds. The result was an erratic reading of the water losses by the dial register, so that the data had to be excluded from the record. The dial gages were afterwards transferred to platforms 3 and 4 on the experimental Tower No. 3, and put in full competition with the magnifying burette and the plain burette tubes, with a very similar result, as there is some surging on the upper platforms. If the dial gage stands on a perfectly steady support it is calculated to good work, but it is not a good instrument on a floating or a moving pan. The long siphon should be dispensed with by transferring the gage to the center of the pan, and then other problems arise regarding evaporation from a ring of water, which present considerable difficulties. When one seeks to measure the change in water level to one-fifth of a millimeter, this being the practical limit in the open, where wind and wave disturb the calm level of the water surface continuously, it is found that on a moving pan this small difference in level between the water in the pan and the float-chamber is not enough to control the flow of the wave in the siphon against the surrounding tension on the side of the tube.

The magnifying burette tube.—This modification of the plain burette tube, which was first used at Reno, Nev., was for the purpose of measuring more accurately the change in the water level. Careful experiments at the Salton Sea culminated in a report that each tube is subject to similar errors, and that the magnifying burette has certain disadvantages which leave the plain burette the preferable instrument. Some of the defects of the magnifying burette tube can probably be easily remedied by modifying the construction in certain particulars.

The micrometer gage and the vernier hook gage.—The ancient and honorable hook gage, with vernier, is probably the standard instrument for reading water surfaces. These instruments make contact with the water surface in a still well, one by breaking through from below with a setting point, the other by touching the water surface from above. In a quiet laboratory, and wherever a calm water surface is easily made visible, one can make readings to one or two tenths of a millimeter. In every setting the observer must accurately see the point as it breaks the water surface. If the seeing is bad, as in dark weather or at night, if the point is not readily accessible to an observer's vision, as on a floating 6-foot pan behind a breakwater, then it becomes quite difficult to make the necessary setting of the gages. In the hands of unskilled men, such as not infrequently are the only available observers at the reservoirs, it becomes a difficult matter to secure suitable readings. In a high wind, with considerable sea on, the levels in a still well becomes so variable that different readings are inevitable in a set. We tried the micrometer gage carefully at Reno, 1907, at Indio and Mecca, 1908, and found it better to use the plain burette tubes in our regular work. On the other hand, we have received a good set of readings from Indio station, and from Birmingham, Ala., by methods of point contact with the water surface, but in each case the wind conditions were very favorable and the water level was usually quite steady.

The plain burette tube.—Measurements on water surfaces have usually been made by contacts in still wells or by floats, and these systems have their advantages. However, it seemed to me proper to try the plan of reading the bottom of a meniscus in a tube having a scale engraved on the sides, after the method of chemists and physicists. A copper plate is soldered on the center of the pan; the tube has a beveled edge to admit water at the bottom; the action of gravity on the water raises a column in the inside of the tube depending upon the height of the mean depth of the water; the level in water whose surface is agitated by the wind, which is equal to the level of the same mass of water when perfectly calm, is called the "gravity level," and it is the mean of all the surface inequalities; the action of the water in forming the meniscus raises the curved surface more or less at the sides and center, according to the cleanness of the water and the tube; all evaporation measures are formed by taking the linear differences in height and by subtracting readings taken at one hour from those at a preceding hour; all instrumental peculiarities are eliminated; water level surfaces in the open are not to be obtained without incessant variations, so that readings to a fifth of a millimeter are as sharp as the phenomenon admits. We have always made three readings at least in close succession for a given observation, and the mean is taken as that of the water level at the time; the observations are collected by groups of 6 days or by groups of 10 days, and the mean of all the elements entering the formulas are computed from this large number of readings for discussion, thus eliminating the numerous minor accidental irregularities and securing quite accurate means of the general conditions. It was not possible to execute our numerous computations for shorter intervals of time and it was not necessary to do so, in view of the purpose of this research which is simply to secure formulas and their coefficients. It has been found from much experience that the plain burette tubes can be worked on individual settings to one or two tenths of a millimeter, and that the computations can be carried to the hundredth of a millimeter, the last decimal being uncertain. In reading the meniscus on the scale it is necessary to take the precaution to read exactly the same point by holding the tube on a level with the eye against the sky horizon. At night a skyblue target with a mark is substituted for the horizon, and a good acetylene lamp furnishes the illumination. In setting and plugging the tube it is not necessary to see the water closely, and this is an advantage for reading in large pans behind a breakwater. Numerous independent observers made observations which produce coefficients in entire agreement. The results with these tubes also agree with the results obtained at Indio station where the micrometer gage was used, and with those at Birmingham, Ala., made by means of Lehman's pin and cup system. It is thought that any instrument working to one-fifth millimeter is ample for evaporation observations considering the many other uncertainties.

THE FORMULAS USED IN TRIAL COMPUTATIONS.

We have submitted ourselves to the great labor of carrying the computations through several different formulas for a long enough interval of time to fix their relative value in evaporation, and at many stations located in climates of varying kinds. The formulas are as follows, selected from a larger experimental group:

(1) $E_0 = C_1 . e_s \frac{de}{dS} (1 + A_1 w^2)$, Indio.

(2) $E_0 = C_1 . e_s \frac{de}{dS} (1 + A_2 w)$, Reno.

(3) $E_0 = C_3 \cdot \frac{e_s}{e_d}\frac{de}{dS}(1+A_3 w)$, Bigelow.

(4) $E_0 = C_3 \cdot 2\,(e_s - e_d)\,(1+A_2 w)$, Dalton.

(5) $E_0 = C_4 \cdot 2\,(e_t - e_d)\,(1+A_2 w)$, Mammoth.

(6) $E_0 = C_5 \cdot (e_s + e_t - 2e_d)\,(1+A_2 w)$, Marvin.

A full account of the discussion and the observations will appear in the final report, but only general facts can be summarized in this paper. There are these uncertainties to overcome in this research: (1) The wind effect involved in the last term; (2) the form of the function involving the vapor pressure; (3) the coefficient of diffusion in connection with the size of the pan involved in the C-coefficient. The formulas are given a distinctive name for convenience, associated closely with their development. The terms will be taken up in the order of enumeration.

THE WIND EFFECT.

The Reno campaign was incomplete regarding the wind term for two reasons: (1) the amemometers intended for use on the towers did not arrive till the end of the series of evaporation observations, but the readings were afterwards made on the 12 anemometers for 2 following weeks, and a fair idea of the movement of the wind on the several levels, relative to the anemometer used at the foot of Tower No. 2, was obtained; (2) the winds at Reno were very unevenly distributed during the 24 hours, being calm or light, 0 to 10 kilometers per hour, in the forenoon, but high, 10 to 40 kilometers per hour, in the afternoon. Since the great wind effect on evaporation occurred during the hours of rapid evaporation by temperature, the diurnal curves were unusually one-sided and hard to discuss in a formula whose terms and coefficients were unknown. Furthermore, it was generally necessary to interpolate three night intervals, 8 p. m. to 10 p. m., 11 p. m. to 2 a. m., 2 a. m. to 5 a. m., which involved uncertainty during the night hours. We attempted to arrive at the wind coefficient by a systematic sorting of the observations into three groups with wind velocities as follows, 0 to 10, 10 to 20, 20 to 40 kilometers per hour, and in doing this there were necessarily large gaps in the three-hourly observations, where the wind velocities did not occur, that had to be filled in by graphic construction for lack of actual readings at the given wind velocities in the morning and forenoon hours. In a short campaign of 6 weeks this condition could not be avoided at Reno, where the high winds depend upon diurnal convectional circulation. It was not the quality of individual readings of the water height in the pans, but the uneven distribution of the high winds that was the primary obstacle under the circumstances. In working out the coefficients in these formulas it is seen that what is taken up in one term is merely lost in another term; that is, if the Aw term is made too small the C term is necessarily too large, and it is hard to discriminate between them in a short series, as all things may superficially seem to be consistent. It is only by going to other places, where the wind distribution is different, that these inaccuracies come to light.

On transferring the work to Indio and Mecca, autumn, 1907, and season, 1908, it appeared from our discussion that the Reno wind coefficient $(1+.0175\,w)$ was too small to take care of the observed evaporation. After many trials it was decided to abandon the sorting of the observations by three wind groups, as impracticable because of the uneven distribution of the data in the diurnal period. It was for a time thought that the wind effect was proportional to the square of the wind velocity instead of the first power, and the coefficient was adopted, wind effect $=(1+.0060\,w^2)$. We found at Indio by placing our anemometer at the upper pan, 10 feet above the lower, and another anemometer at the lower pan, that usually the lower anemometer was recording from 30 per cent to 50 per cent less wind movement than the upper. The lower pan was somewhat shielded by an alfalfa growth around it and the wind currents were damped near the ground. At other stations we find it proper to make the lower anemometer read about 30 per cent less than the upper. As there is no fixed rule in the matter it follows *that every pan must invariably be supplied with its own anemometer wherever evaporation observations are made, on the land or on large bodies of water.* This wind effect was applied to numerous observations at several stations, including a recomputation of the Reno work, with the result that in the formula in light winds there was a slight under compensation, and in heavy winds, especially above 20 kilometers per hour, there was a serious over compensation. The term with the second power worked fairly well up to 18 kilometers per hour, and beyond that it failed.

Another peculiarity had by this time emerged from our Salton Sea work, especially due to the excellent supervision and suggestion of Mr. Kadel, which showed that pans of different diameters evaporate at different rates, contrary to my own first opinion on this point. We have numerous direct experiments to prove this fact, and the coefficients derived from the formulas applied to 2-foot, 4-foot, and 6-foot pans, respectively, are decisive. Thus, we have C_2 (2-foot) $= C_4$ (4-foot) $\times 1.12 = C_6$ (6-foot) $\times (1.12)^2$ for a close approximation. Now it happens that at Reno, Indio, Mecca, Brawley, Mammoth, the equipment consisted of a 6-foot pan for the lower and a 2-foot pan for the upper anemometer, so that in seeking to reconcile the observed evaporation of the upper and lower pans through the wind effect only, the actual pan effect was merged with it, and thus tended to mask the simple wind coefficient. At the Salton Sea, on all towers, the same sized pans are used from top to bottom, 2-foot on Tower No. 1, 4-foot on Towers Nos. 2 and 4; likewise pans at the stations of the Reclamation Service at Birmingham and Cincinnati are 2-foot and 4-foot, or 3-foot in other instances. Out of the numerous computations it emerged that the pan effect must be carefully separated from the wind effect, and this lead to the wind term finally employed in Bigelow's formula, reverting to the first power,

$$\text{wind effect} = (1+.070\,w).$$

This is 4 times the Reno coefficient, 3 times that used at Abbassia, Egypt, 3.5 times that used by Fitzgerald, and 30 times that used by Carpenter.[2]

The following table shows the existing relations:

TABLE 1.—*Wind factors,* $I=(1+.0060\,w^2)$, $II=(1+.070\,w)$.

Wind in kilometers per hour.

Wind.	I.	II.	I/II.	Wind.	I.	II.	I/II.	Wind.	I.	II.	I/II.
0	1.00	1.00	1.00	15	2.35	2.05	1.15	30	6.40	3.10	2.07
1	1.00	1.07	0.93	16	2.54	2.12	1.20	31	6.76	3.17	2.13
2	1.02	1.14	0.87	17	2.73	2.19	1.25	32	7.14	3.24	2.20
3	1.05	1.21	0.87	18	2.94	2.26	1.30	33	7.53	3.31	2.28
4	1.10	1.28	0.86	19	3.17	2.33	1.36	34	7.94	3.38	2.35
5	1.15	1.35	0.85	20	3.40	2.40	1.42	35	8.35	3.45	2.42
6	1.22	1.42	0.86	21	3.65	2.47	1.48	36	8.76	3.52	2.49
7	1.29	1.49	0.87	22	3.90	2.54	1.54	37	9.21	3.59	2.56
8	1.38	1.56	0.89	23	4.17	2.61	1.60	38	9.66	3.66	2.64
9	1.49	1.63	0.91	24	4.46	2.68	1.66	39	10.12	3.73	2.71
10	1.60	1.70	0.94	25	4.75	2.75	1.73				
11	1.73	1.77	0.98	26	5.06	2.82	1.79				
12	1.86	1.84	1.01	27	5.37	2.89	1.86				
13	2.01	1.91	1.05	28	5.70	2.96	1.93				
14	2.18	1.98	1.10	29	6.05	3.03	2.00				

It was especially difficult to establish this wind term because the ordinary wind movements, 8 to 13 kilometers per hour, give nearly identical results for the two trial formulas, while above 20 kilometers per hour the wave agitation becomes pronounced and spray is formed before 30 kilometers per hour is reached. On the plateau the question of barometric pressure is involved with the wind and pan effects. The final outcome was the adoption of the wind term $(1+.070w)$, and the consequent recomputation of the C-coefficients for a great series

[2] Monthly Weather Review, July, 1907.

of observations at several stations, including Reno, making the fourth discussion of that primitive series. We, therefore, reject Professor Marvin's implied view that the wind effect should be represented by a curve in the general formula. At least it will probably be very difficult to eliminate other terms sufficiently for some time to come, to go beyond the simple term adopted in the Bigelow formula.

THE VAPOR PRESSURE e_d IN A RATIO OR DIFFERENCE.

The Dalton formula demands that the vapor pressure e_d shall enter as a difference from the vapor pressure e_s, in the form $(e_s - e_d)$; one might suppose that it should enter as a difference $(e_t - e_d)$, or as $(e_s - e_d + e_t - e_d)$. The first conceives that water evaporates in proportion to the difference in vapor pressure between that at the water surface temperature (S, e_s) and that at the dew point temperature (d, e_d); the second conceives that the evaporation is in proportion to the unsaturated condition of the atmosphere, that is to the difference between the possible vapor pressure at the dry bulb temperature (t, e_t) and that at the dew point temperature; the third that it is proportional to the combined effects of both. As the result of my first Reno computations I rejected all these suppositions and assumed that the evaporation is proportional to the function $e_s \frac{de}{dS}$, depending upon the temperature of the water surface S, and inversely to the density of the vapor pressure e_d. As this point is a mere matter of observation and computation, I have so conducted the reductions as to bring out these facts in sufficient detail. By formula (2) the coefficient C_1 is computed without $1/e_d$, and it can be seen whether C_1 rises and falls inversely to e_d. If they are seen thus to be reciprocals, then $C_1 \times e_d = C_2$, and C_2 should be a constant. The following exhibit from our computations seems to be decisive on these points. It should be remembered in connection with such an exhibit that evaporation is quite a loose phenomenon, or rather, so very complex in the open, under varying wind movements and vapor pressures, that it is not possible to secure any very smooth series of results. We are here concerned with the broad facts and general principles involved.

TABLE 2.—*Showing that the coefficient C_1 and e_d vary inversely using the formula* $E_0 = C_1 e_s \frac{de}{dS}(1 + .070\,w)$.

2-FOOT PANS, SALTON SEA, TOWER NO. 1, 1,500 FEET INLAND.

1909.	C_1	e_d	C_2	C_1	e_d	C_2	C_1	e_d	C_2	C_1	e_d	C_2	C_1	e_d	C_2
Pans		(1)			(2)			(3)			(4)			(5)	
June 14	.0036	11.4	.0410	.0040	11.5	.0460	.0041	11.4	.0467	.0040	11.1	.0444	.0041	11.1	.0455
June 28	.0025	16.9	.0423	.0027	16.8	.0454	.0029	16.7	.0484	.0028	16.3	.0456	.0029	16.1	.0467
July 12	.0028	15.4	.0431	.0029	15.2	.0441	.0032	15.3	.0490	.0032	15.4	.0493	.0033	15.0	.0495
July 26	.0039	11.1	.0433	.0038	11.3	.0429	.0037	10.8	.0400	.0037	10.7	.0396	.0038	11.7	.0445
August 9	.0025	18.5	.0463	.0024	18.2	.0437	.0027	18.2	.0489	.0024	17.9	.0430	.0025	17.6	.0440
August 23	.0022	19.5	.0429	.0021	19.0	.0399	.0022	19.0	.0418	.0021	18.9	.0397	.0021	18.7	.0393
September 15	.0037	11.1	.0411	.0038	11.6	.0441	.0040	11.4	.0456	.0038	11.7	.0445	.0040	11.5	.0460
October 8	.0048	8.7	.0418	.0055	8.5	.0468	.0058	8.6	.0499	.0058	8.2	.0476	.0060	8.1	.0486
November 1	.0057	6.9	.0393	.0075	6.6	.0495	.0071	7.0	.0497	.0066	7.0	.0462	.0068	6.9	.0469
Means			.0423			.0437			.0467			.0444			.0457

4-FOOT PANS, SALTON SEA, TOWER NO. 2, NEAR THE BRIDGE.

June 14	.0027	14.3	.0386	.0032	12.8	.0410	.0032	11.9	.0381	.0040	10.9	.0426	.0046	10.4	.0478
June 28	.0018	19.9	.0358	.0017	18.2	.0309	.0021	17.0	.0357	.0022	16.1	.0354	.0024	15.6	.0374
July 12	.0021	18.5	.0389	.0021	17.0	.0357	.0023	16.3	.0375	.0023	15.9	.0366	.0025	15.6	.0390
July 26	.0025	14.8	.0370	.0026	13.3	.0346	.0030	13.0	.0390	.0030	12.4	.0372	.0034	12.0	.0408
August 9	.0017	20.7	.0352	.0019	19.9	.0378	.0019	19.4	.0369	.0019	19.2	.0365	.0020	18.6	.0372
August 23	.0014	21.1	.0295	.0016	20.1	.0322	.0017	19.9	.0338	.0017	19.7	.0335	.0016	19.4	.0310
September 15	.0026	13.7	.0356	.0031	12.9	.0400	.0034	12.6	.0428	.0036	12.4	.0446	.0036	12.5	.0450
October 8	.0035	10.3	.0361	.0041	9.8	.0402	.0042	9.2	.0386	.0044	9.1	.0400	.0045	8.8	.0396
November 1	.0040	7.5	.0300	.0048	6.8	.0326	.0053	6.8	.0360	.0054	6.3	.0340	.0059	6.4	.0378
Means			.0352			.0361			.0379			.0379			.0395

4-FOOT PANS, SALTON SEA, TOWER NO. 4, 7,000 FEET FROM BRIDGE.

June 14		13.6		.0032	12.6	.0403	.0036	11.7	.0421	.0037	11.2	.0424	.0041	11.1	.0455
June 28	.0017	21.4	.0364	.0019	19.8	.0376	.0021	18.9	.0397	.0022	17.3	.0381	.0024	16.5	.0396
July 12															
July 26	.0020	16.4	.0328	.0025	17.4	.0435	.0025	14.7	.0368	.0027	13.2	.0356	.0028	13.3	.0372
August 9															
August 23	.0014	22.3	.0312	.0015	21.4	.0321	.0015	21.1	.0317	.0016	20.6	.0330	.0017	20.1	.0402
September 15	.0022	15.4	.0339	.0026	14.6	.0380	.0026	14.3	.0372	.0026	13.7	.0356	.0028	13.4	.0375
October 8	.0026	12.9	.0335	.0035	11.9	.0417	.0037	10.8	.0400	.0037	10.3	.0381	.0042	10.3	.0433
November 1	.0033	9.8	.0323	.0039	9.2	.0359	.0042	8.8	.0370	.0041	8.2	.0336	.0039	7.9	.0308
Means			.0337			.0384			.0379			.0366			.0392

INDIO, CAL., DATE FARM.

Date.	6-foot pan.			2-foot pan.		
February 24	.0059	6.9	.0041	.0076	5.9	.0045
March 8	.0065	5.7	.0037	.0087	4.7	.0041
March 19	.0052	7.9	.0041	.0067	7.0	.0047
March 31	.0058	6.0	.0035	.0074	5.3	.0039
April 12	.0044	8.3	.0037	.0059	7.5	.0044
April 23	.0048	7.7	.0037	.0058	6.6	.0038
May 5	.0054	8.2	.0044	.0059	7.6	.0045
May 17	.0051	8.9	.0045	.0065	8.0	.0052
May 24	.0039	7.7	.0030	.0052	7.1	.0037
June 4	.0037	9.5	.0035	.0047	9.0	.0042
June 14	.0040	8.6	.0034	.0051	8.3	.0042
June 21	.0030	10.2	.0031	.0045	9.4	.0042
June 28	.0025	12.3	.0031	.0036	10.9	.0039
July 5	.0030	9.4	.0028	.0047	8.7	.0041
July 12	.0027	10.7	.0029	.0040	10.5	.0042
July 19	.0027	11.3	.0031	.0041	10.7	.0044
July 26	.0036	7.7	.0028	.0056	7.1	.0040
Means			.0349			.0424

MAMMOTH, DESERT.

Date.	6-foot pan.			2-foot pan.		
March 23	.0056	7.3	.041	.0067	6.8	.046
April 3	.0071	6.0	.043	.0076	5.3	.040
April 15	.0062	5.8	.036	.0062	5.5	.034
April 27	.0057	4.7	.027	.0067	4.6	.031
May 8	.0051	6.3	.032	.0058	6.3	.037
May 20	.0054	6.8	.037	.0056	6.8	.038
May 24	.0048	5.9	.028	.0050	5.8	.029
June 4	.0040	6.6	.026	.0047	6.7	.031
June 16	.0040	7.7	.031	.0043	7.5	.032
June 28	.0033	11.6	.038	.0034	11.6	.039
July 9	.0032	10.6	.034	.0035	10.2	.036
July 21	.0032	10.1	.032	.0034	10.0	.034
August 2	.0024	15.1	.036	.0029	14.9	.043
August 12	.0017	19.3	.033	.0019	19.0	.036
August 23	.0016	18.8	.030	.0020	18.7	.037
September 3	.0023	13.3	.031	.0028	13.4	.038
September 15	.0034	8.6	.029	.0043	8.7	.037
September 27	.0036	7.5	.027	.0046	7.5	.035
October 8	.0043	5.7	.025	.0065	5.6	.036
			.0324			.0363

The record is compiled for certain intervals, beginning with the dates entered in the table and ending with the date preceding the next entry. At the Salton Sea pan 1 is the lowest, on the ground or near the water, and pan 5 is on the top of the towers. At the Salt Creek Bridge, Salton Sea, on account of the arduous nature of the work and the necessity of executing some special experiments the full program was carried on during alternating 10-day intervals, with a reduced program at the intermediate 10-day intervals. The extract is here made from the full program record, although there is no special difference in the respective results, which are similar at Mecca, Brawley, Reno, Lake Tahoe, Ady, Oreg., Birmingham, Ala., Cincinnati, Ohio, and wherever the computations have been carried. The rise and fall of C_1 and e_d inversely to each other, between very wide ranges in e_d, from 3.0 millimeters to 21.0 millimeters is decisive that e_d should appear in the denominator of the formula (3), and it disapproves the theoretical contention made by Professor Marvin to the contrary. We will now put formulas 3, 4, 5, and 6 into competition, using exactly the same temperature and wind data in all cases as the data of the computations. Remarks concerning the smoothness of the resulting computed coefficients will be postponed to a later paragraph. Table 2 gives values of C_1 computed without the vapor pressure e_d; the values of e_d in the table are taken from direct psychrometer readings; the product $C_1\ e_d = C_2$ is substantially constant for a given series; the values of C_2 differ considerably for pans of different sizes. These pan effects will be carefully worked out in the final report. The apparent variations in the values C_2 are usually to be attributed to incomplete records of the wind velocity within the pans, as we have not enough anemometers to place at each individual pan.

SUMMARY OF THE C-COEFFICIENTS.

Tables 3, 4, 5 contain the summary of the coefficients C_2, C_3, C_4, for the Bigelow, Dalton, Mammoth formulas, arranged to show the diurnal variation and the annual variation in the same. It shows distinctly that C_2, for the same diameter pans, is nearly constant in all parts of the country; that C_3 in Dalton's formula may be constant in one locality and vary widely in other localities, as is seen by comparing the Salton Sea region with Birmingham and Cincinnati; that C_4 in the Mammoth formula has a wide diurnal and annual range and is not a proper argument for evaporation discussions, since the air temperature is only loosely associated with the actual evaporation; $(e_s - e_d)$ is much more closely connected with the observed evaporation than is $(e_t - e_d)$; Marvin's formula $(e_s + e_t - 2e_d)$ is a compromise between the $(e_s - e_d)$ and the $(e_t - e_d)$ systems, but it is distinctly inferior to the original Dalton formula. The Dalton formula has a close relation to Bigelow's formula, as will be shown, but is without question inferior to it in several ways. Its historic value consists in the fact that it is closely related to the ratio-formula first used at Reno.

TABLE 3.—*Summary of the C_2-coefficients.*

Formulas..... $E_0 = C_2 \cdot \frac{e_s}{e_d}\frac{de}{dS}(+.070w)$.

6-FOOT PANS.

Hours.	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Mammoth	.033	.032	.032	.036	.036	.028	.031
Brawley	.027	.026	.026	.026	.029	.027	.027
Mecca	.027	.024	.032	.034	.037	.025	.030
Indio	.040	.035	.034	.030	.035	.036	.035
Means	.032	.029	.031	.032	.034	.029	.031

4-FOOT PANS.

	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Tower 2 (1)	.039	.031	.027	.037	.039	.036	.035
(2)	.039	.031	.031	.038	.039	.035	.036
(3)	.042	.034	.030	.037	.041	.037	.037
(4)	.044	.035	.029	.038	.038	.039	.037
(5)	.045	.034	.033	.039	.041	.039	.039
Tower 4 (1)	.033	.031	.028	.033	.036	.039	.032
(2)	.043	.035	.027	.038	.039	.041	.037
(3)	.044	.035	.032	.037	.042	.041	.038
(4)	.042	.036	.033	.033	.039	.039	.037
(5)	.043	.034	.028	.037	.040	.039	.037
Birmingham	.025	.027	.037	.038	.034	.027	.031
Cincinnati	.029	.028	.036	.039	.034	.032	.033
Means	.039	.033	.031	.037	.039	.037	.036

2-FOOT PANS.

	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Mammoth	.038	.037	.036	.037	.038	.030	.036
Brawley	.034	.032	.033	.038	.038	.035	.035
Mecca	.041	.037	.041	.041	.046	.036	.041
Indio	.050	.041	.034	.043	.044	.041	.042
Tower 1 (1)	.042	.038	.038	.046	.044	.043	.042
(2)	.045	.038	.044	.051	.047	.043	.045
(3)	.049	.039	.049	.050	.045	.047	.047
(4)	.048	.038	.041	.049	.045	.043	.044
(5)	.049	.040	.042	.052	.045	.045	.046
Birmingham	.034	.038	.048	.056	.047	.033	.042
Cincinnati	.034	.038	.049	.051	.043	.039	.042
Means	.042	.038	.041	.047	.044	.040	.042

TABLE 4.—*Summary of the C_3-coefficients.*

$E_0 = C_3 \cdot 2(e_s - e_d)(1 + .070w)$.

6-FOOT PANS.

Hours.	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Mammoth	.0044	.0042	.0039	.0041	.0055	.0037	.0043
Brawley	.0034	.0035	.0033	.0036	.0045	.0037	.0037
Mecca	.0034	.0032	.0038	.0047	.0048	.0032	.0038
Indio	.0053	.0051	.0039	.0040	.0052	.0046	.0047
Means	.0041	.0040	.0037	.0041	.0050	.0038	.0041

4-FOOT PANS.

	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Tower 2 (1)	.0047	.0039	.0034	.0043	.0045	.0042	.0041
(2)	.0048	.0041	.0038	.0043	.0046	.0043	.0043
(3)	.0052	.0043	.0036	.0042	.0048	.0046	.0045
(4)	.0056	.0046	.0035	.0043	.0047	.0045	.0045
(5)	.0058	.0047	.0040	.0046	.0051	.0047	.0048
Tower 4 (1)	.0046	.0038	.0037	.0039	.0042	.0046	.0041
(2)	.0055	.0048	.0033	.0042	.0045	.0048	.0045
(3)	.0055	.0047	.0041	.0042	.0049	.0050	.0047
(4)	.0056	.0047	.0034	.0038	.0048	.0048	.0046
(5)	.0058	.0049	.0037	.0045	.0051	.0047	.0048
Birmingham	.0044	.0048	.0062	.0052	.0048	.0041	.0049
Cincinnati	.0048	.0049	.0055	.0051	.0046	.0046	.0049
Means	.0053	.0045	.0037	.0042	.0047	.0046	.0045

2-FOOT PANS.

	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Mammoth	.0050	.0050	.0046	.0056	.0062	.0044	.0054
Brawley	.0045	.0046	.0043	.0055	.0061	.0047	.0049
Mecca	.0054	.0053	.0051	.0061	.0064	.0045	.0055
Indio	.0070	.0058	.0041	.0062	.0066	.0052	.0057
Tower 1 (1)	.0053	.0046	.0046	.0056	.0057	.0050	.0051
(2)	.0057	.0047	.0051	.0059	.0059	.0051	.0054
(3)	.0063	.0049	.0050	.0058	.0057	.0056	.0056
(4)	.0060	.0047	.0049	.0057	.0058	.0054	.0054
(5)	.0062	.0050	.0051	.0061	.0057	.0053	.0056
Birmingham	.0077	.0133	.0100	.0079	.0066	.0053	.0078
Cincinnati	.0061	.0104	.0091	.0065	.0056	.0061	.0073
Means	.0057	.0050	.0048	.0058	.0060	.0050	.0054

Birmingham and Cincinnati omitted from the means.

TABLE 5.—*Summary of the C_t-coefficients.*

$E_0 = C_t \cdot 2\,(e_t - e_d)\,(1 + .070\,w)$.

6-FOOT PANS.

	2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Mammoth	.0030	.0028	.0025	.0030	.0043	.0028	.0030
Brawley	.0033	.0032	.0023	.0028	.0040	.0035	.0031
Mecca	.0039	.0035	.0024	.0032	.0043	.0036	.0035
Indio	.0039	.0034	.0026	.0032	.0051	.0041	.0037
Means	.0035	.0032	.0025	.0031	.0045	.0035	.0033

4-FOOT PANS.

		2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Tower 2	(1)	.0034	.0027	.0028	.0049	.0047	.0035	.0037
	(2)	.0029	.0022	.0027	.0045	.0044	.0032	.0032
	(3)	.0030	.0023	.0024	.0043	.0044	.0032	.0033
	(4)	.0031	.0023	.0024	.0042	.0041	.0030	.0032
	(5)	.0030	.0023	.0025	.0042	.0040	.0029	.0031
Tower 4	(1)	.0032	.0024	.0031	.0050	.0052	.0040	.0038
	(2)	.0032	.0024	.0024	.0050	.0052	.0037	.0036
	(3)	.0030	.0024	.0028	.0048	.0050	.0035	.0036
	(4)	.0029	.0023	.0026	.0042	.0047	.0033	.0033
	(5)	.0028	.0023	.0025	.0047	.0045	.0029	.0037
Birmingham		.0080	.0100	.0089	.0071	.0079	.0073	.0081
Cincinnati		.0137	.0185	.0079	.0049	.0044	.0066	.0092
Means		.0031	.0024	.0026	.0046	.0046	.0033	.0035

2-FOOT PANS.

		2 a. m.	6 a. m.	10 a. m.	2 p. m.	6 p. m.	10 p. m.	Means.
Mammoth		.0034	.0031	.0032	.0045	.0048	.0031	.0037
Brawley		.0037	.0034	.0029	.0046	.0054	.0043	.0040
Mecca		.0049	.0043	.0033	.0050	.0062	.0047	.0047
Indio		.0043	.0034	.0025	.0047	.0054	.0037	.0040
Tower 1	(1)	.0036	.0030	.0033	.0049	.0052	.0042	.0040
	(2)	.0035	.0028	.0035	.0056	.0053	.0037	.0041
	(3)	.0038	.0029	.0037	.0058	.0052	.0038	.0042
	(4)	.0035	.0026	.0036	.0055	.0049	.0036	.0039
	(5)	.0035	.0027	.0035	.0057	.0047	.0035	.0039
Birmingham		.0104	.0123	.0099	.0107	.0119	.0099	.0107
Cincinnati		.0125	.0164	.0078	.0063	.0066	.0079	.0097
Means		.0038	.0031	.0033	.0051	.0052	.0039	.0041

Birmingham and Cincinnati omitted from the means.

The *C*-coefficients in the Marvin formula are to be found by taking the mean of the coefficients of the Dalton and Mammoth formulas. It should be especially noted that the *Bigelow formula gives the same system of coefficients at the Salton Sea, at its neighboring stations, and at Birmingham and Cincinnati, that is, in the arid and humid districts,* while the Dalton, the Mammoth, and the Marvin formulas call for larger coefficients in the latter than in the former districts. This is due to the fact that the difference-functions $(e_s - e_d)$, $(e_t - e_d)$, and $(e_s + e_d - 2\,e_d)$ are over compensated by e_d in the humid districts. This is especially true during the night and early forenoon hours when the temperatures are low; it is true during intervals of rainy, foggy, and heavy weather generally. The vapor pressure e_d does not enter either formula as a simple, pure function of evaporation, because in dry climates the evaporating vapor is carried away too rapidly, but in humid climates too slowly, to represent the true evaporation vapor pressure called for by the formulas. This is a large subject whose discussion can not here be continued.

It is noted, also, that the Dalton formula is much steadier in the diurnal and annual ranges than is the Mammoth or the Marvin formula. Indeed, it is proper to take the Bigelow and the Dalton formulas as approximate equivalents, and deduce the formula through the observed coefficients, at the several pans,

$$\frac{de}{dS} = 0.256\,\frac{e_d}{e_s}\,(e_s - e_d).$$

Numerous computations show that this relation is closely fulfilled at Mammoth, Brawley, Mecca, Indio, the towers at the Salton Sea, Birmingham, Cincinnati, and that the variations between the values of $\frac{de}{dS}$ taken from the physical tables, and the values of $\frac{de}{dS}$ computed from the observed vapor pressures e_s, e_d, through the evaporation and wind effect which determines the coefficient 0.256, afford a criterion for discussing the function of evaporation more closely than heretofore. The term e_d is rather loosely connected with the observed amount of the evaporation, and it is this fact that has made the study of evaporation so difficult and unsatisfactory. A full account of this phenomenon will be postponed to a later report on account of its importance and necessarily complex nature.

TABLE 6.—*Summary of the C-coefficients by months on 2-foot pans.*

$E_0 = C_2 \cdot \frac{e_s}{e_s}\frac{de}{dS}\,(1 + .070\,w)$.

	Mammoth.	Brawley.	Mecca.	Indio.	Tower 1. (1)	(2)	3)	(4)	(5)	Birmingham.	Cincinnati.
June	.032	.030	.036	.042						.044	.037
June		.035		.042	.042	.046	.047	.045	.044		.037
June	.032		.037	.042							.033
June	.039	.041	.035	.039	.040	.046	.048	.046	.047		
July	.036	.033	.038	.041						.039	.039
July		.038		.042	.044	.045	.048	.048	.048	.039	.042
July	.034		.038	.044						.038	.043
July		.030		.040	.043	.043	.040	.039	.044		
August	.042	.034	.047	.044						.043	.038
August	.047	.032	.044	.043	.046	.044	.048	.043	.045	.040	.040
August	.037			.050						.048	.043
August		.036	.043	.056	.043	.041	.042	.039	.040		
Sept	.037	.037	.049	.043						.038	.045
Sept		.033		.038						.038	.038
Sept	.038		.040		.041	.044	.045	.045	.047	.046	.046
Sept	.034	.035	.039	.042							
October			.041	.039							.038

$E_0 = C_3 \cdot 2\ (e_s - e_d)\,(1 + .070\,w)$.

June	.0051	.0044	.0049	.0052						.0069	.0068
June			.0053	.0058	.0050	.0056	.0058	.0057	.0058		.0055
June	.0046	.0046		.0054							.0057
June	.0050	.0049	.0042	.0049	.0050	.0053	.0057	.0055	.0056		
July			.0043	.0051						.0070	.0076
July	.0053	.0043		.0054	.0059	.0052	.0058	.0056	.0057	.0068	.0075
July	.0052	.0046	.0049	.0054						.0091	.0082
July		.0042		.0054	.0054	.0054	.0050	.0049	.0055		
August	.0052	.0042	.0053	.0053						.0087	.0057
August	.0046	.0040	.0054	.0054	.0054	.0052	.0056	.0053	.0052	.0074	.0074
August	.0048	.0043	.0051	.0066						.0071	.0064
August			.0068	.0051	.0054	.0052	.0049	.0050			.0072
Sept	.0048	.0047	.0064	.0055						.0078	
Sept	.0049	.0043	.0052	.0051	.0048	.0052	.0053	.0052	.0056	.0069	.0066
Sept										.0077	.0075
Sept	.0046	.0045	.0058	.0052							.0075
October			.0051	.0053							

$E_0 = C_4 \cdot 2\ (e_s - e_d)\,(1 + .070\,w)$.

June	.0032	.0033	.0036	.0040						.0079	.0104
June					.0040	.0041	.0045	.0040	.0041		.0104
June	.0030	.0034	.0035	.0037							.0072
June	.0033	.0031	.0031	.0032	.0036	.0037	.0040	.0037	.0037		
July			.0033	.0030						.0078	.0085
July	.0030	.0034		.0036	.0038	.0037	.0040	.0046	.0038		.0146
July		.0034	.0035	.0032						.0089	.0098
July	.0033	.0030		.0031	.0042	.0038	.0034	.0034	.0036	.0135	
August	.0032	.0033	.0035	.0035						.0280	.0120
August	.0034	.0038	.0043	.0035	.0038	.0038	.0040	.0038	.0037	.0101	.0097
August	.0034	.0037	.0039	.0031							.0124
August				.0043	.0040	.0040	.0042	.0038	.0037	.0096	.0108
Sept	.0033	.0038	.0040	.0041						.0071	
Sept	.0034		.0041	.0035						.0072	.0128
Sept		.0036		.0035	.0039	.0042	.0042	.0040	.0039	.0095	.0070
Sept	.0037	.0040	.0054	.0045							.0100
October			.0044	.0037							

THE PAN EFFECT.

In a small pan the vapor of evaporation is rapidly blown away, so that new vapor diffuses into clean fresh air; in a large pan the wind banks the vapor up on the leeward side, so that evaporation proceeds into a mixture of dry air and vapor of varying contents. The result is that the coefficient of diffusion varies for the pans of different sizes, being in Bigelow's formula for the near sea level stations, about:

$C_2 = 0.032$ for 6-foot pans.
$C_3 = 0.037$ for 4-foot pans.
$C_4 = 0.042$ for 2-foot pans.

These coefficients may be increased for the plateau or elevated stations.

It is not yet clear how we can obtain the corresponding coefficient over very large water surfaces, owing to the difficulty of measuring the rain, the inflow and outflow, and changes other than those due to the simple evaporation. There is an apparent small defect in the coefficient in the forenoon hours and excess in the afternoon hours by all formulas, and this may be connected with the interplay of the specific and latent heats during the warming of the water temperature in the forenoon and cooling in the afternoon hours. It is this class of questions that always render any research into evaporation very difficult, and while a laboratory may be needed to settle certain points, it is not seen how the confined conditions of a laboratory can be made to become a safe substitute for the natural laboratory in the open air.

VI.—ON CERTAIN MINOR PROBLEMS IN EVAPORATION.

The major problems in evaporation consist in securing the proper form of the formula and the coefficients or constants. We have found that the coefficient of diffusion varies with the size of the pan, due to the banking up of the vapor on the leeward side under the action of the wind. A small pan clears much more completely of vapor than a large pan, so that the evaporation takes place into a mixture of air of different contents according to the size of the pan and the force of the wind. Having made numerous readings on pans whose diameters are 2 feet, 3 feet, 4 feet, 6 feet, respectively, it becomes evident that the C-coefficient decreases as the size of the pan increases, something like $C = 0.042$ for a 2-foot pan to $C = 0.031$ for a 6-foot pan. The question how to exturpolate the series to a large lake or water surface is practically very difficult. This unexpected problem has arisen in our research of 1909, and it will require a special series of observations in 1910 to settle it.

A brief experience with the computations of the data of evaporation by means of formulas containing the terms $(e_s - e_d)$ Dalton, $(e_t - e_d)$ Mammoth, $(e_s + e_t - 2e_d)$ Marvin, convinces us that the theory upon which they depend, namely, that the evaporation is proportional to the *difference* of such vapor pressures as a potential is really insufficient. These formulas imply that the evaporation ceases when these terms become zero, as is the case in saturation when $e_s = e_t = e_d$. This theory proceeds on the assumption that *saturation* of the air implies *stagnation* of the vapor, which is obviously not true. There is usually a visible movement of circulation upward in a cumulus cloud; there is rapid movement of air through a saturated cloud cap or tablecloth on a mountain, which contradicts the idea. Suppose a vapor blanket overlies a body of water, saturated as fog or visible vapor in the lowest layers, it yet soon reaches an unsaturated state at some distance above it vertically. There is probably a continuous movement of vapor upward through this vapor blanket from the saturated surface layers to the unsaturated upper layers. This can only take place when the water continues to evaporate into the fog, while the fog circulates upward to supply the losses on the upper layers caused by the wind action or by the simple diffusion into the unsaturated layers. In this case saturation is accompanied by circulation and not stagnation, such as is implied in the Dalton, Mammoth, and Marvin formulas, at their limit. The question when evaporation ceases is a complex one, and the further question, why the C-coefficients show such irregularities in apparently the same conditions of temperature, vapor pressure, and wind, in both dry and humid regions, during strong evaporation, demands a full investigation. These points are illustrated in any collection of C-coefficients given in our tables, and they can not be ascribed to the observations so far as their superficial accuracy is concerned. They undoubtedly depend upon certain subtle molecular processes which are only inadequately recorded in the usual meteorological data. These questions are of such interest and novelty that I am happy to quote Mr. W. F. Lehman's preliminary report on these topics and commend his attack upon the problems.

REPORT ON EVAPORATION AT BIRMINGHAM, ALA., 1909.

W. F. LEHMAN, Observer, Birmingham, Ala.

My principal object in making the tests was not so much to study absolute evaporation values as to ascertain how long evaporation would go on in an atmosphere charged with moisture to near saturation, and to discover, if possible, the causes of the discrepancies in evaporation measurements observed under similar weather conditions. That the differences were due more to the activity, not the amount, of the water vapor in the air than to any other of the meteorological elements considered as factors in the evaporation formulas, I concluded from our experiments made in 1908 at the Shades Mountain Reservoir of the Birmingham Water Works Company. During the dry summer months of 1908 we obtained by means of the Trabert formula constants that were constant to a certain degree. But during the following winter season our enthusiasm was dampened considerably. Evaporation was observed to be large where we expected little, and little water evaporated where we expected larger amounts. But one fact was also soon noted, namely, the most divergent results were obtained on days when a cyclonic area was expected to pass over this section within 36 hours. Though the moisture conditions did not differ much at the reservoir on such days, they differed materially in the dry district where the Weather Bureau is located.

I am hopeful that the special tests, which I understand are to be carried on at several stations east of the Mississippi, will confirm the observations enumerated in the following. All observations were made during rainy weather or when rain was expected.

During the latter half of May the experiments were confined to observing evaporation from small water pans and from a Piche evaporometer. A thoroughly moistened sheet of letter paper placed in a pan was also exposed with the other apparatus in places sheltered from the rain, but accessible to the wind, and with the same temperature and humidity conditions as prevailed in the station instrument shelter. The results varied as much under practically the same conditions and were often alike under entirely different conditions as those obtained at East Lake in fair weather.

By the end of May the Tennessee Company had completed a whole year's record of evaporation at Shades Mountain, and the instruments and apparatus used in the experiments were put at my disposal for carrying on further investigations. The evaporation tank, 3 feet square and 1.5 foot deep, was sunk into the ground in the clear space between the Weather Bureau building and the instrument shelter. But before the tank was filled some comparative rainfall measurements were taken with the four gages on hand.

The method of placing a rain gage near the evaporation pan, or on shore while the pan floats in the lake, and of subtracting the amount of rainfall from the height of the water in the pan, is unreliable. I had placed three gages together in the bottom of the tank, and all three showed different amounts after a shower, the proportionately greatest differences showed after showers of short duration and amounting to from 0.05 to 0.15 inch.

About the middle of June the evaporation tank was filled and sheltered by a wooden, painted roof, which could easily be removed. The edges of the roof overlapped the edges of the tank

sufficiently to prevent the rain from falling in the tank on days with light winds, but they could not prevent the rain from being blown in by the stronger winds. This difficulty has only partly been overcome by surrounding the tank with a wire screen. Under the roof, sheltered from rain and wind, the Piche evaporometer was suspended, and the pan with the moistened sheet of paper was kept floating in the tank.

Although numerous showers occurred during June and July, there was only one period of frequent rains and high humidity, namely, June 19 to 23. But the wind velocities on these days, with the exception of the 22d, were such as to make it impossible to keep the rain from being blown into the tank. On June 22, a cloudy day with a relative humidity of 90 to 95 per cent from the ground to the roof of the Weather Bureau building, light showers from 6 a. m. to 2 p. m. were followed by heavy rain between 2 and 3 p. m. At 7 a. m. 0.03 inch of evaporation had been measured in the tank, and the same amount evaporated between 7 a. m. and 4 p. m. The sheet of paper had been wetted at 7 a. m. and was dry at 4 p. m., except in some places where stray splashes of rain were clearly visible. The Piche evaporometer kept on evaporating as it did, more or less, during any shower.

On the night of August 6–7 a rainfall lasting 6 hours occurred. It began shortly before the p. m. observation was taken. The amount was 0.76 inch and was about evenly distributed over the different hours. At 6 a. m. of the 7th, 0.07 inch of evaporation was measured in the tank, or only 0.03 inch short of the amount of dryand rainless nights. The other days of August were practically dry, and during September, with the exception of a few days, the same conditions prevailed. On September 10 the forenoon was cloudy and rainy, without any evaporation. On the 15th, with light showers, evaporation went on unchecked. The storm of the 21st made accurate measurements impossible.

These experiments, being made in the summer months, reveal nothing that could not reasonably be expected. Abnormal humidity conditions were due either to local evaporation, when evaporation would go on from the apparatus also, or to moisture carried to the place of observation by the winds from adjacent territory visited by rain. In the latter case evaporation would be checked to some extent. I think we would be in a better position to explain the discrepancies found in the East Lake results if the winds had been investigated, with regard to their vapor contents, before they entered the field of observation. If the moisture is carried along by a fresh or higher wind, it may not influence evaporation much; but in light winds or calms moisture, coming from an outside source and penetrating the air to a considerable height, may settle downward and stop evaporation effectually. On the other hand the upward movement of water vapor in dry and calm air, or in light winds, is very decided at times and may be observed on the sudden rise of the dew point temperature at the beginning of a rain shower in the face of a dry wind.

On a fair afternoon, with southeast winds varying in velocity from 2 to 8 miles per hour, the lawn on the weather side of the instrument shelter was wetted thoroughly to a distance of 25 feet, and at the same time the psychrometer and anemometer were observed. As long as the wind was strong enough it carried the moisture evaporated from the wet lawn away under the instrument shelter without affecting the readings of the thermometers. But as soon as the anemometer cups slowed down, the wet thermometer rose, while the dry remained stationary; and this rising and falling of the wet thermometer kept on in perfect harmony with the movement of the anemometer cups.

It will be seen from this that our p. m. records of humidity on dry summer days will become pretty unreliable at times. While I delayed the sprinkling of the Weather Bureau grounds until after the p. m. observation, I could not well request my neighbors, living within half a mile, to do the same with their lawns. The removal of the instruments to the roof of the building would not remedy the defect, since humidity readings 10 and 40 feet above the ground were about the same under these conditions. Thus, in this case, diffusion, probably aided by convection, is a rather active agent in distributing atmospheric moisture.

Diffusion is said to be a slow process, and as a proof of this assertion is given the fact that evaporation is at a minimum from a water surface over which the air has been made as nearly motionless as it is possible to do, as in a glass tube of small diameter, or in a closed vessel. That evaporation is retarded in such a vessel is ascribed to the high intensity of the water vapor blanket supposed to lie close to the water surface. I have made the experiment with glass tubes of small diameter, firmly fixed to the wall, and days elapsed before any measurable amount of evaporation could be noticed. Owing to the small bore of the tubes, there was no way of finding out the activity of the vapor within. But on making the experiment with covered glass jars, of the Gordon battery, I could not find any dense vapor to within one millimeter from the water surface. The jars were put on chairs in a room which was closed, and left undisturbed for days in succession, and then was entered into for observation purposes only. On small cork disks, glazed at the top, pieces of writing and blotting paper were floated. These paper squares came to within one millimeter of the water surface, but they never attained any high degree of moisture. Removing the writing paper at intervals of from 2 to 15 days, some legend was written thereon as soon as the paper had been taken out, and in no case did the ink spread beyond the letters. I have even now some blotting paper floating in a jar for 40 days, and nearly a centimeter of water has evaporated from the water contents, still there is no sign of the paper ever becoming saturated. The evaporation shows that the moisture passing the paper must have been taken up by the latter, but the moisture as readily evaporated again. To prevent the air space in the jar from becoming saturated the jar was closed by a porous cover. If, in this case, there is a water vapor blanket over the surface, it must be less than a millimeter in height. I think it more probable that a water surface resists evaporation the same as it resists freezing and accomplishes this feat as long as it is perfectly at rest, and it is only when the surface is disturbed, by convectional currents, concussions, or the action of wind and sun, that evaporation really begins.

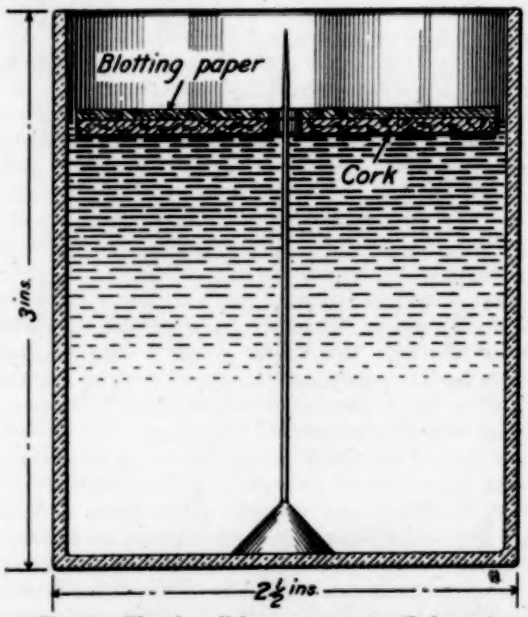

FIG. 1.—Floating disk evaporometer (Lehman).

Weather conditions more suitable for our purpose were looked for in the coming autumn and winter seasons, when rains in this

section are generally caused by passing low pressure areas and are of longer duration than in summer, and when high humidities may prevail for days in succession. But to guard against loss of records during periods of high winds it was found necessary to construct a substitute for the Piche evaporometer, which latter instrument seldom showed evaporation in conformity to that of the other apparatus.

The evaporometer shown in fig. 1 is easily constructed and consists of a glass vessel 3 inches high and 2.5 inches in diameter. To the center of the bottom of the glass a pin is fixed, the point of which reaches up to within a few millimeters of the rim. The glass is filled with water, and a disk of thick blotting paper supported by a cork disk, both with holes in the center to admit the pin point, is floated on the top. The evaporation is measured to tenths of a millimeter by filling the glass by means of a burette tube until the pin point just dimples the water surface exposed at the center of the disk. Four of these instruments, all differing in height and diameter, were exposed under various conditions of weather together with the Piche evaporometer, and they always agreed in the amounts evaporated, but seldom harmonized with the latter instrument. The new evaporometer could not be exposed to fresh or stronger winds, but when mounted near the evaporation tank in light winds, the amounts evaporated from both apparatus were about alike. For the purpose of taking observations this instrument was either sheltered from the wind only, or from rain and wind, as occasion required.

The records obtained during October, November, and December have been tabulated but not inserted here because they are not strictly comparable, on account of the varying exposure the evaporation apparatus were subjected to. However, these records show clearly one fact, namely, that evaporation seldom ceases entirely at the places where the observations were taken, and this fact has been verified up to the date of this writing. The observations had to be discontinued on December 18, when the ice broke all the glass instruments. They were taken up again in the middle of January and since then have been made daily several times, not at fixed hours, but more with regard to weather conditions as prevailing during different periods. The evaporation tank is only covered during rainy weather, while the evaporometer is confined to the instrument shelter. Though quite unexpected results are still observed at times the amounts of evaporation recorded since October are generally in harmony with the conditions prevailing before, during, and after the passing of a cyclonic area over this section, whether or not the disturbance was causing any rain.

According to theory evaporation is furthered by the winds and is retarded in proportion to the decrease in the difference between the vapor tension at the surface temperature of the water and the vapor tension of the air above the water. If, as in the case of the evaporometer, the wind influence be eliminated and the temperature of the water in the instrument be made equal to that of the surrounding air, the amount of evaporation should be proportional to the psychrometric difference observed near the instrument. It will not take an observer in this section of the country any great length of time to find that the rate of evaporation, while usually, not always, high in dry weather, does not conform to the above theory during periods of high humidity. The actual degree of moisture may be high or low before the passing of a storm over this section, but the instances where humidity, absolute and relative, is low before the beginning of a rain attending a low are the rule rather than the exception. In 90 per cent of these cases all the rain falls before the storm center passes, and water vapor is supplied to the lower air by evaporation from the ground only. Under such conditions evaporation goes on unchecked from any apparatus. It is also noticed that the southeast wind rains are usually composed of large drops and are seldom of the misty type.

If, on the other hand, humidity increases with the approach of a low, evaporation is at a minimum from an exposed water pan, even though the relative humidity will not go above 80 per cent. If rains occur as long as the wind is southerly, they are light and misty, and sometimes stop evaporation entirely. The main showers in these cases occur with the arrival of the colder western portion of the storm area. If the low is not followed by any marked change to colder it may pass without causing any rain in this vicinity. The atmospheric humidity in these instances is usually identified with the moisture carried here by the southerly winds. But this theory is not supported by the fact that evaporation may be two or three times as large from an evaporometer in the instrument shelter, where the same relative humidity prevails as outside, than from an evaporometer or water pan not sheltered at the top and even exposed to the wind, nor by the fact that high humidity may prevail during a whole day and still evaporation be low during one part of the day and high during another. The south and southeast winds before and during a warm weather rain are as strong as the southerly winds preceding the rain caused by falling temperature in the rear of the storm center and blow over the same distance of dry territory. It is difficult to explain why they should be dry, sometimes even causing decreasing vapor tension by rising temperature in one case and increasing humidity in the other. It is more reasonable to assume that the dense clouds discharge some of their contents in the form of misty rain which evaporates before reaching the lower layers of the atmosphere, and this water vapor settles downward to the ground.

On November 1 we had every reason to expect rain, as the weather map of that day will show, but no rain occurred on the 1st or 2d. Relatively high humidity and dense cloudiness prevailed from 7 a. m. till noon of the 1st, and the evaporation measured at noon was 0.2 millimeter from the evaporometer exposed to precipitation, and amounted to the same in the water pan, also exposed. From noon to 4 p. m. the clouds became less dense, and patches of clear sky showed at times. The evaporation during this period was 1.2 and 1.0 millimeter from the evaporometer and pan, respectively. In the case of the pan the $e_s - e_d$ was 0.185 inch for the 5 forenoon hours and 0.255 inch for the 4 afternoon hours, and the difference between the forenoon and afternoon $e_s - e_d$ was 0.070 inch. But this little difference does not account for the much higher evaporation during the afternoon. The wind was south and decreased during the afternoon. The imperceptible precipitation had simply stopped after relieving the lower cloud layers of their surplus moisture.

The instances where relative humidities near 100 per cent were observed occurred, 1st, during a dense fog; 2d, near the end of several hours of misty rain; 3d, when the temperature fell away rapidly with the arrival of the cold winds in the rear of a storm center. In the latter case the water temperature in the evaporation apparatus remains several degrees above the air temperature, but this fact does not wholly explain the high evaporation recorded at such times. That evaporation sometimes goes on in the instrument shelter, with the same temperature and high humidity conditions as outside, and ceases from an exposed water surface, shows that water vapor circulates even when the air is nearly saturated. Dense fogs seldom occur in this section of the country, and since we know so little of the actual humidity conditions prevailing during a dense fog, the bulb of the dry thermometer being also wet, they should be studied closely with regard to evaporation and the other meteorological elements predominating before, during, and after the occurrence.

Evaporation and humidity have not yet attained any prominence as meteorological elements in preparing local forecasts of coming weather conditions, but I am satisfied that at the end of the present campaign it can be shown that these elements are not entirely interdependent of each other, and the theory that before a rain, attending the passing of a low, humidity

increases and evaporation is at a minimum will have to be modified. If storms are nourished by moisture, little moisture they draw from the lower air layers of this section. The day before the storm of September 21 the vapor pressure steadily decreased and at 7 p. m. was lower than at any other time during the 17 days preceding the storm.

I have consulted humidity and evaporation conditions in preparing local forecasts since last October with generally good results, but I also met with failures. However, these failures were mostly due to miscalculations of the activity of the other meteorological elements. I intend to prepare a paper, illustrated by diagrams, on this subject.

The observations on evaporation should be made at all stations wherever practicable. Since they require much extra time, volunteers should be called for. But whenever made they should be taken by competent persons interested in the subject.

It will be seen from Mr. Lehman's observations that evidence has been secured to show that evaporation does not always cease during rain, fog, and heavy weather, that is during intervals of saturation, but, on the contrary, there is positive record that evaporation does continue. If this is confirmed by further experiment it tends to discredit the Dalton theory and its derivative formulas. I further quote from a report by A. B. Wollaber, United States Weather Bureau, Los Angeles, Cal. A Marvin self-registering apparatus has been set up to record the evaporation in fog and saturated air. The apparatus had been only recently installed, but the record of March 19 indicates four tips during fog.

The Marvin self-recording evaporometer is now in working order and giving very good results. We had some trouble with this instrument at first, due to some minor causes not easily detected by one not entirely familiar with it.

There are atmospheric conditions in Los Angeles that may prove a menace to accurate observations and I do not see how they can be overcome. A film forms over the water surface of the pan within a comparatively short time after exposure to the atmosphere caused by the great amount of dust in the air in this section. This is a different dust than that found on the desert and seems to be a combination of dust constantly stirred up from the streets and that due to the combustion of oil almost universally used for fuel in the buildings here. I did not think at first that this would amount to much, but after a few days the coating became sufficiently thick to hold up soot from the chimneys of adjacent buildings. I took particular notice of the conditions during a very dense fog that occurred on the 24th of February. Small globules of water formed on top of this film and some bubbles were also noticed. We discovered the difference between the bubbles and the drops by means of a pin, it being impossible to lift the latter on the point of the pin while the former burst when punctured. We were inclined at first to believe that the bubbles came from beneath the film, but closer examination showed that they were supported by it. I once thought to remove the instrument to my residence thinking that possibly we might overcome the difficulty in that way, but before doing so I put out a pan of water at my home and as the same filmy substance accumulated on the water there I abandoned the idea of removing the instrument. Inasmuch as the only desire is to secure these measurements during the prevalence of fog, I shall endeavor to devise some way of skimming off the surface whenever it becomes dirty. We cleaned the pan thoroughly on the 18th instant and on the 19th light fog prevailed from 5:30 to 11:15 a. m. *During this time the instrument recorded four times, showing an evaporation of 0.2 mm.* The instrument was working perfectly.

These facts have been presented to the readers of the MONTHLY WEATHER REVIEW, hoping that volunteers will be found, who can undertake observations of the sort indicated by these papers. It is very evident that as evaporation approaches its limit there are many conditions which it is not easy to observe and analyze, and yet they ought to be fully worked out in the interests of this important research.

WEATHER, FORECASTS, AND WARNINGS FOR THE MONTH.

By Prof. E. B. GARRIOTT, in charge of Forecast Division.

Temperature was below the February average, except along the immediate middle Atlantic and New England coasts and in the vicinity of Los Angeles, Cal., where it was slightly above the normal. In the Ohio and Mississippi valleys and from the upper Mississippi Valley and western Lake Superior westward over the interior of the north Pacific States the means for the month were 3° to 6° below the normal. Freezing temperature occurred as far south as central Florida, along the Texas and middle Gulf coasts, and throughout California, except on the immediate coast. Over the country generally, from the Rockies to the Atlantic, the period from the 15th to 25th was almost continuously cold.

Precipitation was in excess from the upper Missouri Valley westward over Washington, in eastern upper Michigan, generally in the east Gulf States, and in a belt that extended from Louisiana and eastern Texas northeastward over the Ohio Valley, lower Lakes, Pennsylvania, New York, and New England, the greatest excess, about 6 inches, being noted in the Adirondack region of New York. The most marked deficiency in monthly precipitation occurred in Delaware and eastern Maryland, western North Carolina, southwestern California, and west-central Oregon where the amount was 2 inches or more below the normal. Over a large area that covered the middle and southern Plateau and Rocky Mountain districts and Plains States, the lower Missouri and upper Mississippi valleys, and portions of the upper Lake region, the monthly precipitation was less than one inch.

Heavy snows occurred in the Ohio and middle Mississippi valleys and portions of New York and New England, and on the 16th and 17th the snowfall in portions of the lower Ohio and middle Mississippi valleys was the heaviest noted in Weather Bureau records. Owing to continued cold weather the snow in northern districts accumulated to unusual depths and a large area was covered by snow throughout the month. A change to warmer weather at the close of February, with rain in the eastern districts, caused a rapid melting of the snow and a rapid rise in streams in the Ohio Valley, lower Lake region, Pennsylvania, and New York during the early days of March.

February opened with a barometric depression over the Plains States and middle and southern Rocky Mountain and Plateau districts and an area of high barometer over the middle and northern Pacific States. Moving eastward the depression reached the Atlantic coast on the 3d attended by general precipitation from the Mississippi eastward and followed by a decided fall in temperature. In northern New York and parts of New England heavy snow fell. On Sunday, the 6th, the following special forecast was issued:

The week beginning Monday, February 7, will open with temperature considerably below the average for the season over the eastern portion of the United States and freezing weather in the Gulf States and Florida. Following the cold period in the East temperature will rise slowly during the next several days. A disturbance from the middle west and northwest that will reach the Atlantic coast about Thursday will be attended by precipitation from the Mississippi Valley eastward that in more northern States will be in the form of snow, and will be followed by a change to colder.

The center of the disturbance referred to reached the Atlantic coast Thursday morning. Its advance from the Rockies was attended by rain in the Southern and Middle States east of the Mississippi and by snow from the Lake region over New York and New England. It was followed by a marked fall in temperature and by freezing weather as far south as the middle Gulf coast. In portions of northern New York and northern New England temperatures were below zero on the morning of the 11th, with a reported minimum of −26° at Canton, N. Y.

A disturbance that developed in the Rio Grande Valley on the 10th moved eastward to Alabama by the morning of the 11th attended by heavy rain in the Gulf States and by snow in Tennessee, western North Carolina, northern Mississippi, and eastern Arkansas. Storm warnings were ordered for Gulf ports the evening of the 10th and the morning of the 11th the warnings were extended along the Atlantic coast from Florida to Massachusetts. Warnings of heavy snow were issued for the Middle Atlantic and New England States and the mountain districts of North Carolina, West Virginia, eastern Tennessee, and western Pennsylvania, and cold wave warnings were ordered for northern Florida. Moving northeastward to the vicinity of New York City by the morning of the 12th the storm was attended by gales along the Atlantic coast and by heavy snow from North Carolina and eastern Tennessee over the upper Ohio Valley, lower Lakes, and the Middle Atlantic and New England States. During the succeeding 24 hours the center of disturbance passed over the Canadian Maritime Provinces. On Sunday, February 13, the following special forecast was issued:

During the present week a general storm, followed by a cold wave, will cross the United States. The center of this storm will appear over the Pacific States within the next 2 days, cross the Rockies, Plains States, and central valleys during the middle days of the week and reach the Atlantic seaboard by Friday. The cold wave promises to be rather severe. It will overspread the north Pacific States by Tuesday morning, the middle and northern plateau and Rocky Mountain districts by Wednesday morning, the middle and northern plateau and central valleys by Thursday, and reach the Atlantic seaboard by Friday or Friday night.

The extraordinary depth of snow on the ground in parts of the Lake region and in the mountain districts of the Middle Atlantic and New England States will, in the event of warm heavy rains in the near future, present conditions favorable for freshets and floods in the streams of those regions. The outlook for the present is, however, that a tendency toward flood conditions in the larger streams about the middle of the week will be checked by cold weather that will arrive later in the week.

The storm referred to appeared over the north Pacific States on the 14th and moved thence southeastward to the west Gulf States where it recurved eastward and northeastward and passed to the New England coast by Friday morning, the 18th. The storm was attended by heavy snow from the middle Mississippi Valley over the Ohio Valley and lower Lakes, by rain or snow in the Atlantic and west Gulf States, and rains and thunderstorms in the east Gulf and South Atlantic States. Its passage over the Gulf and Atlantic States was attended by gales of unusual strength. The storm was followed by a cold wave that carried the line of freezing temperature to the Gulf coast.

From the 17th to 21st severe storms prevailed over the British Isles. Approximately 100 persons were drowned on the coast and damage on land aggregated hundreds of thousands of dollars. On the 19th the barometer at Valentia, Ireland, fell to a reported reading of 28.36 inches.

The following editorial regarding the American cold wave is from the Oklahoman, Oklahoma, Okla., of February 17:

The remarkable accuracy with which the blizzard that is now traveling across the country was predicted days in advance of its advent is deserving of most favorable comment. Sunday's newspapers throughout the United States carried a warning from the Weather Bureau to the effect that a storm was approaching the Pacific coast that would traverse the entire continent and reach the Atlantic coast by Friday.

In Oklahoma marked derangement of atmospheric conditions were noticeable Monday night. The following day there was the inevitable warmth always observable when warm air is being condensed as it is driven ahead of the cold blasts of an approaching blizzard. Late Tuesday evening there came a sudden drop in temperature, accompanied by high winds. By Wednesday morning the mercury had dropped to 10° above and the boreal blasts were carrying considerable snow.

Thus the story of a prediction and its fulfillment. The advance warning should have been of incalculable benefit to live-stock men and to shippers and to others engaged in avocations which are affected by meteorological conditions.

On February 20 the following special bulletin was issued:

The storm and severe cold wave of the past week crossed the country, as indicated in the bulletin of February 13, the center of the storm reaching the Atlantic coast Friday morning and the cold wave extending with diminished intensity over the Atlantic States Friday and Friday night. The snow attending the storm added materially to the heavy snow deposit in portions of the Ohio Valley, Lake region, and North Atlantic States.

During Monday and Tuesday a storm area will cross the central valleys Great Lakes, and Atlantic seaboard, attended by heavy snow in the upper Lake region and interior of New York and New England, by rain or snow in the middle districts, and rain in the South. Following the storm a cold wave, with clearing and fair weather, will overspread the Mississippi Valley and upper Lakes Monday, and with diminishing intensity will reach the Atlantic States Tuesday and Tuesday night. The second storm of the week, that will in turn be followed by a cold wave, will appear over the extreme West about Tuesday, cross the Plains States and central valleys Wednesday and Thursday, and reach the Atlantic coast by Friday.

By Tuesday morning the storm referred to had advanced from the central valleys over the Middle Atlantic States, attended by snow from the upper Mississippi Valley eastward, rain and snow in the Ohio Valley, and rain in the South. During this period a severe cold wave overspread the Missouri and upper Mississippi valleys, from which regions it advanced southward to the Gulf States and eastward with diminishing intensity to the Atlantic coast. A disturbance that appeared over the middle and north Pacific States Tuesday failed to attain marked strength after advancing eastward, and the development and appearance of the second important storm of the week was nearly 2 days later than anticipated. This storm appeared in the extreme northwest Thursday, advanced over the Plains States Friday, the central valleys and Lake region Saturday, and drifted thence slowly over the Atlantic States. The week ending with the 26th closed with exceptionally high barometric pressure over the Atlantic Ocean, rapidly diminishing pressure over Bering Sea and Alaska, and increasing pressure over the Hawaiian Islands. Pressure changes of this character that occur in the colder months indicate a period of unseasonably warm weather for sections of the United States east of the Rocky Mountains.

Average temperatures and departures from the normal.

Districts.	Number of stations.	Average temperatures for the current month.	Departures for the current month.	Accumulated departures since January 1.	Average departures since January 1.
		°	°	°	°
New England	12	25.4	− 0.2	+ 3.8	+ 1.9
Middle Atlantic	15	32.2	− 0.4	+ 0.9	+ 0.4
South Atlantic	10	46.0	− 1.8	− 1.2	− 0.6
Florida Peninsula*	8	60.8	− 1.2	− 0.1	0.0
East Gulf	11	47.9	− 2.9	− 1.6	− 0.8
West Gulf	10	45.2	− 4.0	− 0.5	− 0.2
Ohio Valley and Tennessee	13	32.9	− 3.3	− 2.7	− 1.4
Lower Lakes	10	22.2	− 2.3	− 1.0	− 0.5
Upper Lakes	12	16.8	− 2.2	− 0.1	0.0
North Dakota*	9	3.0	− 3.6	− 0.1	0.0
Upper Mississippi Valley	14	21.4	− 3.2	− 2.0	− 1.0
Missouri Valley	12	21.9	− 2.5	0.0	0.0
Northern slope	9	17.3	− 4.2	− 2.4	− 1.2
Middle slope	6	30.8	− 1.6	+ 1.5	+ 0.8
Southern slope*	8	40.3	− 2.1	+ 0.7	+ 0.4
Southern Plateau*	11	42.8	− 1.1	0.0	0.0
Middle Plateau*	10	26.2	− 3.1	− 6.7	− 3.4
Northern Plateau*	9	25.7	− 3.1	− 5.4	− 2.7
North Pacific	7	39.1	− 1.6	− 2.6	− 1.3
Middle Pacific	5	47.9	− 1.7	− 4.7	− 2.4
South Pacific	4	52.5	0.0	− 1.0	− 0.5

*Regular Weather Bureau and selected cooperative stations.

Average precipitation and departures from the normal.

Districts.	Number of stations.	Average.		Departure.	
		Current month.	Percentage of normal.	Current month.	Accumulated since Jan. 1.
		Inches.		*Inches.*	*Inches.*
New England	11	4.04	125	+ 0.8	+ 2.0
Middle Atlantic	15	2.69	87	− 0.4	+ 0.3
South Atlantic	11	3.58	95	− 0.2	− 1.7
Florida Peninsula*	8	2.88	97	− 0.1	− 1.9
East Gulf	11	5.36	113	+ 0.6	− 1.2
West Gulf	10	2.63	96	− 0.1	− 1.7
Ohio Valley and Tennessee	13	4.11	114	+ 0.5	+ 2.5
Lower Lakes	10	3.61	150	+ 1.2	+ 2.2
Upper Lakes	12	1.34	77	− 0.4	− 0.6
North Dakota*	9	0.39	66	− 0.2	− 0.5
Upper Mississippi Valley	15	1.03	60	− 0.7	− 0.5
Missouri Valley	12	0.62	61	− 0.4	0.0
Northern slope	9	0.75	100	0.0	+ 0.1
Middle slope	6	0.40	57	− 0.3	− 0.5
Southern slope*	8	0.27	25	− 0.8	− 1.5
Southern Plateau*	11	0.16	15	− 0.9	− 1.1
Middle Plateau*	11	0.58	33	− 1.2	− 1.4
Northern Plateau*	9	1.48	100	0.0	− 0.4
North Pacific	7	5.57	102	+ 0.1	+ 0.8
Middle Pacific	7	2.71	69	− 1.2	− 2.4
South Pacific	4	0.24	10	− 2.2	− 2.9

*Regular Weather Bureau and selected cooperative stations.

Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	76	+ 1	Missouri Valley	76	+ 1
Middle Atlantic	72	− 2	Northern slope	73	+ 4
South Atlantic	74	− 2	Middle slope	67	0
Florida Peninsula	81	+ 1	Southern slope	58	− 10
East Gulf	74	− 2	Southern Plateau	48	+ 4
West Gulf	72	− 2	Middle Plateau	70	+ 6
Ohio Valley and Tennessee	73	− 1	Northern Plateau	76	+ 1
Lower Lakes	79	− 1	North Pacific	84	+ 3
Upper Lakes	79	− 3	Middle Pacific	75	− 1
North Dakota	90	+10	South Pacific	66	− 3
Upper Mississippi Valley	77	0			

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	5.9	+ 0.6	Missouri Valley	4.4	− 0.8
Middle Atlantic	5.3	− 0.2	Northern slope	5.0	+ 0.1
South Atlantic	5.4	+ 0.1	Middle slope	4.4	0.0
Florida Peninsula	4.8	+ 0.5	Southern slope	4.0	− 0.8
East Gulf	5.8	+ 0.2	Southern Plateau	2.7	− 0.9
West Gulf	5.4	− 0.2	Middle Plateau	5.3	+ 0.2
Ohio Valley and Tennessee	6.0	− 0.2	Northern Plateau	7.4	+ 1.2
Lower Lakes	6.9	+ 0.1	North Pacific	7.7	+ 0.6
Upper Lakes	6.0	− 0.3	Middle Pacific	5.8	+ 0.2
North Dakota	4.7	− 0.3	South Pacific	4.5	+ 0.2
Upper Mississippi Valley	5.2	0.0			

Maximum wind velocities.

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Block Island, R. I.	12	58	ne.	North Head, Wash.	12	56	s.
Do.	18	67	s.	Do.	14	54	nw.
Buffalo, N. Y.	23	56	w.	Do.	24	58	se.
Burlington, Vt.	26	56	s.	Do.	26	61	s.
Do.	27	52	s.	Do.	27	73	s.
Cape Henry, Va.	1	50	n.	Do.	28	50	s.
Do.	4	50	nw.	Oklahoma, Okla.	16	54	n.
Cheyenne, Wyo.	15	50	nw.	Pensacola, Fla.	17	60	s.
Duluth, Minn.	15	51	ne.	Do.	21	54	se.
Eastport, Me.	12	60	nw.	Do.	26	54	e.
El Paso, Tex.	16	57	ne.	Point Reyes Light, Cal.	1	78	nw.
Hatteras, N. C.	1	50	nw.	Do.	6	62	s.
Do.	24	60	ne.	Do.	14	60	nw.
Do.	25	52	n.	Do.	22	56	s.
Independence, Cal.	14	66	w.	Do.	26	54	nw.
Mount Tamalpais, Cal.	1	70	nw.	Salt Lake City, Utah	14	52	nw.
Do.	2	54	ne.	Sioux City, Iowa	15	60	nw.
Do.	7	50	sw.	Southeast Farallon, Cal.	1	68	n.
Do.	13	52	sw.	Do.	14	50	n.
Do.	14	70	nw.	Syracuse, N. Y.	20	54	s.
Do.	18	53	sw.	Do.	27	50	s.
Do.	19	54	w.	Tatoosh Island, Wash.	12	59	s.
Mount Weather, Va.	3	56	nw.	Do.	21	57	e.
Do.	6	56	nw.	Do.	22	53	e.
Do.	7	51	nw.	Do.	24	56	sw.
Do.	18	76	nw.	Do.	26	59	s.
Do.	22	61	nw.	Do.	27	56	sw.
Nantucket, Mass.	1	52	ne.	Tonopah, Nev.	14	52	w.
Do.	12	53	sw.	Williston, N. Dak.	28	52	w.

RAINFALL IN JAMAICA.

The northern division comprises the northern shores from Port Maria to Davis Cove, including the central part of the Island which forms the central subdivision; the southern division comprises the southern shores from Holland Bay to South Negril; the northeastern and west-central divisions are the remaining parts of the Island bounded by the sea and the other divisions.

Through the kindness of Mr. Maxwell Hall, meteorologist to the government of Jamaica and now in charge of the meteorological service of that island, we have received the following data:

Comparative table of rainfall for February, 1910.
[Based upon the average stations only.]

Divisions.	Relative area.	Number of stations.	Rainfall.	
			1910.	Average.
			Inches.	*Inches.*
Northeastern division	25	17	4.66	5.39
Northern division	22	41	2.40	2.54
West-central division	26	20	1.34	2.78
Southern division	27	26	0.40	1.73
Means	100	.....	2.20	3.11

The rainfall for the island was an inch below the average.

The heaviest rainfall, 17.48 inches, was recorded at Shrewbury, in the northeastern division, while at several places in the southern division no rain fell during February.

RIVERS AND FLOODS.

By Prof. H. C. FRANKENFIELD, in charge River and Flood Division.

At the close of the month of January, 1910, the entire northern section of the country east of the Mississippi River was under a blanket of snow that ranged in depth from 3 to 39 inches, with the maximum depth over Michigan, northwestern Pennsylvania, and northeastern New York. Beneath the greater portion of this snow was a frozen soil, and the flood outlook for the month of February was far from reassuring. A single heavy rainfall accompanied by high temperatures, such as frequently occur toward the end of winter, could not fail to cause severe floods over all the northern districts east of the Mississippi River. Fortunately the month was a moderately cold one and there was practically no change in the conditions during the first three weeks of February, except that the snow had increased somewhat in depth and compactness over the northern districts, with a water equivalent of about 4 inches over the watershed of the Grand River of Michigan, and from 3 to 5 inches over that of the upper Allegheny River. Beginning with February 26 a period of warm weather set in without any rains of consequence, except over the lower Ohio Valley, and by the end of the month much of the snow had disappeared from the Allegheny Valley eastward and northeastward. On Sunday February 27, the following statement was issued from the Central Office at Washington:

> Weather conditions during the present week will be such as to cause a decided rise in the Ohio River and its tributaries, and also in rivers that have their sources in the mountain districts of the North Atlantic States. These regions are covered by an unusual depth of snow, the melting of which by high temperatures that will prevail throughout the week, supplemented by rains of the first part and the closing days of the week, will cause freshets in the smaller streams and produce in the rivers rises that are likely to approach or pass flood stages.

Owing to the absence of heavy rains, the run-off was comparatively slow over the Allegheny watershed, with stages on February 28 a few feet above the flood stage as a rule. At the end of the month the crest of the rise had not yet reached Pittsburg.

Specific warnings for the interior rivers of the State of Ohio, the upper Ohio River, and the rivers of the Middle Atlantic States and southern New England were issued on February 28, but as the floods did not occur until after that date, mention thereof will be deferred until the next issue of the REVIEW. Over the lower Ohio watershed the rains of February 27 and 28 were quite heavy, and on the latter date warnings of flood stages were also issued for the Ohio River at Evansville, Ind., and for the lower Wabash River.

Except where frozen, the upper Mississippi River feli somewhat during the month, while the lower river fell until about February 20, when another rise set in from the Ohio River. This rise was due to moderately heavy rains over the lower Ohio watershed about the middle of the month, and at the end of the month it had not quite reached New Orleans. These rains also caused decided rises in the Cumberland and lower Tennessee rivers, but not to flood stages. The Illinois River, below La Salle, Ill., remained somewhat above flood stage, although there was a gradual fall throughout the month. The rivers of Texas were comparatively low, but elsewhere in the Gulf of Mexico system moderate stages prevailed with a single sharp rise in the Wateree and Congaree rivers of South Carolina and the rivers of Georgia and Alabama, caused by heavy rains during the early part of the last week of the month. Warnings were necessary for the Congaree and Wateree rivers and, as a result, a large number of cattle was removed from the swamps, as well as some hay from the meadow lands. No damage was done, and to the lumbermen the high water was of decided benefit. Over the north Pacific States general rains were frequent and, together with the melted snow waters resulting from the warm winds, they caused a renewal of flood conditions over portions of the State of Washington during the last week of the month. Warnings of the approach of the high water were issued on February 26. There was also a rapid rise in the upper Sacramento River and in some of the smaller rivers in the State of Oregon. No detailed reports of these high waters have yet been received.

ICE.

There was but little change in ice conditions during the month. The Mississippi River remained frozen as far down as the mouth of the Des Moines River, and the Missouri as far south as the mouth of the Platte River. There was a gorge above the bridge at St. Joseph, Mo., until February 14 when the ice moved out.

On the morning of February 28 the gorges at Towanda, Pa., on the North Branch, and at Clearfield, Pa., on the West Branch of the Susquehanna River, broke and by night all the ice in the rivers was moving. At Renovo, Pa., on the West Branch a stage of about 25 feet, or 9 feet above flood stage, resulted from the movement. The upper Passaic River remained frozen during the month, while the ice in the White River, at Whiteriver Junction, Vt., moved out into the Connecticut at 1 p. m., February 28.

Hydrographs for typical points on several principal rivers are shown on Chart I. The stations selected for charting are Keokuk, St. Louis, Memphis, Vicksburg, and New Orleans, on the Mississippi; Cincinnati and Cairo, on the Ohio; Nashville, on the Cumberland; Johnsonville, on the Tennessee; Kansas City, on the Missouri; Little Rock, on the Arkansas; and Shreveport, on the Red.

SPECIAL PAPERS ON GENERAL METEOROLOGY.

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Librarian.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers or other communications bearing on meteorology or cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled; it shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau. Unsigned articles are indicated by a ——.

American forestry. Washington. v. 16. March, 1910.

Wolfschutz & others. The effect of the forest upon waters. p. 156–173.

American journal of science. New Haven. v. 29. April, 1910.

Bigelow, Frank H. Studies on the general circulation of the earth's atmosphere. A discussion of the departures and the residuals of the temperature and precipitation in climatology. p. 277–292.

Engineering news. New York. v. 63. March 24, 1910.

—— The engineering features of the recent floods in Paris. p. 227–331.

Geographical journal. London. v. 34. December, 1909.

Mill, Hugh Robert. Report on the rainfall of the Exe Valley. p. 639–645. [With rainfall charts.]

Gore, William, & Thompson, D. Halton. Note on rainfall and stream-flow statistics. p. 645–650.

Journal of the Franklin institute. Philadelphia. v. 169. March, 1910.

Bauder, Paul F. Quality of light. p. 223–237. [Analysis of daylight and comparison with artificial illuminants.]

Nature. London. v. 83. March 10, 1910.

—— Some recent applications of ozone. p. 47. [Use of ozone in air-purification, brewing, bleaching, etc.]

—— Colors of sea and sky. p. 48–50.

Science. New York. March 18, 1910.

Arctowski, Henryk. On changes of atmospheric pressure in North America. p. 427–428.

Scientific American. New York. v. 102. March 19, 1910.

—— The ionization of air. Some simple experiments. p. 244; 250–251.

Cosmos. Paris. 59 année. 26 mars 1910.

F., F. Paratonnerres à vide. p. 345–347. [Describes new form of lightning arrester invented by Schmidt and manufactured by Siemans & Halske. Illustrated.]

France. Académie des sciences. Comptes rendus. Paris. Tome 149. 1910.

Lippmann, G. Sismographe à colonne liquide. p. 363–366. (14 fév.)

Besson, Louis. Sur une sorte d'arc-en-ciel blanc, observé à Paris. p. 426–427. (14 fév.)

Galitzine, B. Sur la détermination de l'épicentre d'un tremblement de terre d'après les données d'une seule station sismique. p. 642–644. (7 mars.)

Arctowski, Henryk. Sur les anomalies de la répartition de la pression atmosphérique aux États-Unis. p. 753–754. (14 mars.)

Géographie. Paris. 18 année 15 mars. 1910.

Nouailhac-Pioch, F., & Maillet, Edmond. La crue extraordinaire de la Seine en janvier 1910. p. 113–119.

—— La limite des neiges dans les montagnes. p. 183–184. [Review of work by Flusin & Jacob.]

Revue néphologique. Mons. Juillet 1909.

Van De Vyver, L. N. Ballonets sondes et les pronostics sur la direction du vent. p. 343–344.

Annalen der Physik. Leipzig. 4. Folge. Band 31. 1910.

Seeliger, R. Über Ionenadsorption an fallenden Wassertropfen. p. 500–518. (März.)

Scheel, Karl, & Heuse, Wilhelm. Bestimmung des Sättigungsdruckes von Wasserdampf zwischen 0° und +50°. p. 715–736.

Globus. Berlin. Band 44. 15. Oktober 1908.

Linke, Franz. Samoanische Bezeichnung für Wind und Wetter. p. 229–232.

Himmel und Erde. Berlin. Jahrgang 22. März 1910.

Müller, Ludwig. Erdbeben. p. 255–275.

Illustrierte aeronautische Mitteilungen. Strassburg. 14. Jahrgang. 9. März. 1910.

Bamler, —. Die Beteiligung des niederrheinischen Vereins an der wissenschaftlichen Woche 1909. p. 9–14. [Illustrated.]

Kaiserl. Akademie der Wissenschaften. Sitzungsberichte. Mathematisch-Naturwissenschaftliche Klasse. Wien. 117 Bd. Dez. 1908.

Wagner, Arthur. Untersuchung der Wolkenelemente auf dem Hohen Sonnblick (3106 m.) p. 1281–1293.

Exner, Felix M. Ergebnisse einiger Temperaturregistrierungen im Wolfgangsee. p. 1295–1315.

Kaiserl. Akademie der Wissenschaften. Sitzungsberichte. Mathematisch-Naturwissenschaftliche Klasse. Wien. 118 Bd. 1909.

Kohlrausch, K. W. Fritz. Beiträge zur Kenntnis der atmosphärischen Elektrizität XXX. Luftelektrische Messungen auf hoher See und in subtropischem Klima. p. 25–69. (Januar.)

Schmidt, Wilhelm. Eine unmittelbare Bestimmung der Fallgeschwindigkeit von Regentropfen. p. 71–84. (Januar.) [Illustrated.]

Schweidler, E. R. von. Beiträge zur Kenntnis der atmosphärischen Elektrizität. XXXI. Luftelektrische Messungen an Alpenseen in den Sommern 1907 und 1908. p. 91–98. (Januar.)

Schmidt, Wilhelm. Studien zum nächtlichen Temperaturgang. p. 293–319. (März.)

Defant, Albert. Berg- und Talwinde in Südtirol. p. 553–604. (Mai.)

Brommer, Alois. Beiträge zur Kenntnis der atmosphärischen Elektrizität. XXXII. Das atmosphärische Potentialgefälle in Triest nach den Beobachtungen von November 1902 bis März 1905. p. 629–701. (Mai.)

Schmidt, Wilhelm. Zur Beobachtung und Analyse rascher Luftdruckschwankungen. 1. Der Variograph, ein Instrument zur Registrierung der Änderungsgeschwindigkeit des Luftdruckes. p. 885–897. (Juni.)

Exner, Felix M. Zur Theorie der Tageshelle. p. 899–921. (Juni.)

Königliche preussische Akademie der Wissenschaften. Sitzungsberichte. Berlin. 1910.

Penck, Albrecht. Versuch einer Klimaklassifikation auf physiogeographischer Grundlage. p. 236–246. (März.)

Königlich preussisches meteorologisches Institut. Bericht über die Tätigkeit. 1909. Berlin. 1910.

Süring, R. Nachruf auf Adolf Sprung. p. 56–66. [With list of Sprung's works. Portrait in frontispiece.]

Lachmann, G[eorg]. Nachruf auf Victor Kremser. p. 67–73. [With list of Kremser's works. Portrait in frontispiece.]

Hellmann, G. Bericht über die Vergleichung der Hauptbarometer deutscher und ausländischer meteorologischer Institute. p. 73–84.

Hellmann, G. Über die Aufstellung der Thermometer zur Bestimmung der Lufttemperatur. 2. Mitteilung. Vergleich der Fenster- und der Hüttenaufstellung. p. 85–96. [Illustrated.]

Barkow, E. Die natürliche Ventilation der Thermometeraufstellungen auf dem meteorologischen Observatorium bei Potsdam. p. 97–113.

Knoch, K. Lebhafte Schwankungen der Temperatur an der Grenzfläche der untersten Bodeninversionen. p. 113–124.

Kassner, C. Der grosse Schneefall am 16. und 17. November 1909. p. 124–133.

Marten, W. Über Registrierungen der Sonnenscheinautographen und ihre Auswertung. p. 133–139.

Lüdeling, G. Einige Ergebnisse fünfjähriger Registrierungen des luftelektrischen Potentialgefälles in Potsdam. p. 151–159.

Physikalische Zeitschrift. Leipzig. 11. Jahrgang. 1910.

Negro, C. Über die Radioaktivität des Taues. p. 189–191. (1 März.)

Pacini, D. Über die Zerfallsprodukte von Radium und Thor in der Atmosphäre. p. 227–232. (15. März.)

Schweizerischer Aero-Club. Bulletin. Bern. 4. Jahrgang. März 1910.

Gockel, A. Die wissenschaftliche Klubfahrt pro 1909 des Schweizerischen Aero-Klub. p. 21–23. [Preliminary account of balloon ascent by Quervain, Gockel, and R. O. Müller, Zürich, Dec. 11, 1909. Atmospheric radioactivity decreased slightly with ascent.]

Weltall. Berlin. 10. Jahrgang. 1 März 1910.

Peppler, W. Die Witterungskunde im Dienste der Luftschiffahrt. p. 149–151. [Account of the weather service at the Frankfort aeronautical exposition.]

Sociedad científica "Antonio Alzate." Memorias y revista. Mexico. Tome 25. 1909.

Leal, M. Étude du régime des vents à Léon. Guanajuato. p. 257–287.

Nuovo cimento. Pisa. anno 56. Gennaio 1910.

Naccari, Andrea. Esperienze sull'evaporazione. p. 52–63.

Rivista tecnica aeronautica. Roma. anno 7. Gen.-Febr. 1910.

Castagneris, G. Tavole del regime di frequenza de venti per tutti i 111 osservatori meteorologici del regno. [Series of wind-roses for Italian stations.]

Gamba, P. Sull'uso dei cervi-volanti e dei piccoli palloni frenati in meteorologia. p. 3–6.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Librarian.

The following have been selected from among the titles of books recently received, as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies. Most of them can be lent for a limited time to officials and employees who make application for them. Anonymous publications are indicated by a ——.

Alt, Eugen, & Weickmann, Ludwig.
. . . Klimatologie von Süddeutschland. 1. Teil. Untersuchungen über Gewitter und Hagel in Süddeutschland (Periode 1893–1907). München. 1909. C31 p. f°. (Sonderabdruck aus den "Beobachtungen der meteorologischen Stationen im Königreich Bayern," hrsg. von der K. B. Meteorologischen Central-Station. Band 31. Jahrgang 1900.)

Assmann, Richard.
Die Winde in Deutschland. Braunschweig. 1910. 61 p. f°.

Bologna. Università. Osservatorio.
Osservazioni meteorologiche dell'annata 1908. Bologna. 1909. 31 p. f°.

Canada. Department of marine and fisheries. Toronto observatory.
Results of meteorological and seismological observations, 1907. 35 p. 12°. Toronto. 1909.

Chile. Observatorio astronómico de Santiago.
. . . Observaciones meteorológicas de 1906, 1907, 1908. Santiago. 1910. v. p. f°. (Publicaciones bajo la dirección del Dr. Federico Ristenpart, no. 2.)

Eckardt, Wilhelm R.
. . . Paläoklimatologie. Leipzig. 1910. 141 p. 16°. (Sammlung Göschen.)

Egypt. Survey department.
Measurement of the volumes discharged by the Nile during 1905 and 1906 by E. M. Dowson, with a note on rating formulæ for current-meters by J. I. Craig. Cairo. 1909. 82 p. 4°.
Rains of the Nile basin and the Nile flood of 1908. Cairo. 1909. 69 p. 4°.

Great Britain. Meteorological office.
Hourly readings obtained from the self-recording instruments at four observatories in connection with the Meteorological office, 1909. 41st year; new series. v. 10. Forming part of the British meteorological year book for 1909.) London. 1910. xii, 197 p. f°.
Meteorological observations at stations of the second order, 1906. London. 1909. x, 161 p. f°.

Hamburg. Deutsche Seewarte.
32ter Jahresbericht über die Tätigkeit der Deutschen Seewarte. 1909. Hamburg. 1910. 52 p. 4°.

Japan. Central meteorological observatory.
Annual report. 1907. Part 1. Meteorological observations in Japan. Tokio. 1909. 369 p. 4°.

Ohio. Agricultural experiment station.
28th annual report, 1908–1909. Wooster. 1909. 8°. [Contains meteorological summary.]

Oña. Colegio maximo de la Compañia de Jesus.
Observaciones meteorológicas. 1909. Oña. 1910. 41 p. 8°.

Phillips, Frank J.
. . . Hail injury of forest trees. (Transactions of the Academy of science of St. Louis. v. 19. no. 3. Issued March 10, 1910. p. 49–56.)

Prussia. K. Preus. meteorol. Institut.
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CONDENSED CLIMATOLOGICAL SUMMARY.

In the following table are given, for the various sections of the Climatological Service of the Weather Bureau, the average temperature and rainfall, the stations reporting the highest and lowest temperatures with dates of occurrence, the stations reporting the greatest and least monthly precipitation, and other data, as indicated by the several headings.

The mean temperatures for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observations. Of course the number of such records is smaller than the total number of stations.

Temperature and precipitation by sections, February, 1910.

Section.	Temperature—in degrees Fahrenheit.							Precipitation—in inches and hundredths.					
	Section average.	Departure from the normal.	Monthly extremes.					Section average.	Departure from the normal.	Greatest monthly.		Least monthly.	
			Station.	Highest.	Date.	Station.	Lowest.	Date.			Station.	Amount.	Station.	Amount.
Alabama	45.8	− 1.1	2 stations	80	27	Riverton	− 4	12	5.38	− 0.36	Auburn	7.97	Goodwater	2.55
Arizona	47.9	− 0.8	Fort Mohave	90	28	Flagstaff	−12	3	0.12	− 1.15	Flagstaff	0.88	32 stations	0.00
Arkansas	39.0	− 2.2	Pine Bluff	75	8	Rogers	−13	18	3.66	− 0.01	Warren	6.57	2 stations	1.60
California	46.0	− 1.7	Azusa	88	12	Tamarack	−25	3	2.43	− 1.44	Monumental	17.23	22 stations	0.00
Colorado	23.6	− 1.4	2 stations	76	14	Gunnison	−34	16	1.00	− 0.22	Gladstone	4.80	4 stations	T.
Florida	57.9	− 0.9	Plant City	90	23	Johnstown	20	14	3.48	− 0.24	Molino	9.72	Miami	0.70
Georgia	46.4	− 0.6	Valdosta	83	27	Clayton	8	13	4.85	− 0.50	Point Peter	8.43	St. George	2.04
Hawaii	66.6		3 stations	85	9†	Humuula, Hawaii	30	3	3.97		Honomanu V., Maui	21.27	3 stations	0.00
Idaho	23.0	− 5.0	Garnet	58	27	Blackfoot Dam	−30	4	2.47	+ 0.27	Burke	7.79	Edie	0.18
Illinois	25.9	− 1.1	Griggsville	68	15	Windsor	−24	18	1.93	− 0.47	Mount Vernon	5.71	Coatsburg	0.25
Indiana	27.3	− 1.2	Bloomington	60	15	2 stations	−23	18†	3.04	+ 0.24	Jeffersonville	5.86	Rochester	1.26
Iowa	17.8	− 1.4	Keokuk	58	15	Inwood	−21	17	0.46	− 0.60	Burlington	2.09	Sibley	T.
Kansas	30.1	0.0	Hugoton	80	14	Hugoton	−11	17	0.51	− 0.56	Independence	1.92	7 stations	T.
Kentucky	32.9	− 2.2	2 stations	66	27	Anchorage	−12	18	4.70	+ 1.13	Owenton	7.15	Pikeville	2.31
Louisiana	49.9	− 1.6	Lafayette	87	22	Plain Dealing	3	18	4.61	− 0.48	Dodson	9.34	Opelousas	2.12
Maryland and Delaware	33.7	+ 1.9	2 stations	74	28	2 stations	0	7	2.24	− 1.27	Emmitsburg, Md.	4.02	Delaware City, Del.	0.57
Michigan	18.2	+ 0.2	Owosso	62	21	Ewen	−38	19	1.58	− 0.24	Whitefish Point	3.75	Traverse City	0.65
Minnesota	7.5	− 3.3	2 stations	47	1†	2 stations	−43	18	0.45	− 0.30	Sandy Lake Dam	1.46	4 stations	T.
Mississippi	45.8	− 2.1	Pearlington	79	21	3 stations	7	13†	5.15	− 0.26	Biloxi	8.49	Columbus	3.27
Missouri	28.3	− 1.4	2 stations	72	1†	Ironton	−24	18	1.98	− 0.16	Farmington	6.40	Maryville	0.07
Montana	15.8	− 5.7	Fort Benton	61	1	Valentine	−49	22	1.17	+ 0.28	Saltese	7.80	Bridger	0.05
Nebraska	24.3	+ 0.7	Canton (near)	80	14	Kirkwood	−18	23	0.14	− 0.55	Turlington	0.65	11 stations	0.00
Nevada	30.6	− 2.3	Jean	79	28	Halleck	−27	5	0.37	− 0.87	Spooners Ranch	2.61	3 stations	0.00
New England	23.4	0.0	3 stations	60	16†	Bloomfield, Vt.	−31	25	4.03	+ 0.30	Lowell, Mass.	5.87	Houlton, Me.	2.00
New Jersey	30.5	+ 0.5	Bridgeton	69	28	Layton	−11	19	3.08	− 0.84	Dover	4.81	Vineland	1.06
New Mexico	35.2	− 1.5	Roswell	81	25	Elizabethtown	−32	17	0.35	− 0.39	Chama	3.04	18 stations	0.00
New York	20.4	− 1.0	New York City	59	28	Nehasane	−36	25	4.29	+ 1.51	Adams Center	9.06	Cape Vincent	1.59
North Carolina	41.1	− 0.2	3 stations	78	16†	Waynesville	− 3	13	4.21	− 0.30	Southport	8.80	Ramseur	1.72
North Dakota	3.4	− 3.3	Hettinger	56	28	Medora	−50	18	0.50	+ 0.07	Fullerton	1.61	2 stations	0.00
Ohio	25.5	− 1.2	Ironton	68	27	Bladensburg	−25	19	4.05	+ 1.42	Hillsboro	6.46	Defiance	1.34
Oklahoma	36.7	− 0.7	Mangum	86	28	Kenton	−17	17	0.77	− 0.35	Idabel	4.59	3 stations	T.
Oregon	34.4	− 3.2	Roseburg	69	11	2 stations	−20	2†	5.30	+ 0.75	Glenora	21.16	Merrill	0.24
Pennsylvania	26.6	0.0	Uniontown	65	27	2 stations	−22	19†	3.59	+ 0.53	Doylestown	5.39	Pocono Lake	1.41
Porto Rico	72.1	− 1.6	Juana Diaz	92	15	Aibonito	43	5	1.85	− 0.13	Rio Blanco	5.77	Guanica Centrale	0.00
South Carolina	44.7	− 0.9	2 stations	79	17	3 stations	15	13	4.71	+ 0.19	Effingham	9.39	St. George	2.80
South Dakota	11.8	− 4.4	Hermosa	61	25	Kidder	−32	17†	0.44	− 0.25	Greenmont	2.08	3 stations	T.
Tennessee	37.1	− 2.2	Rogersville	71	27	Pinewood	−15	13	4.16	− 0.28	Kenton	6.21	Bluff City	1.90
Texas	47.7	− 1.3	Zapata	98	15	Dalhart	−12	17	1.52	− 0.28	Lufkin	10.60	10 stations	0.00
Utah	27.8	− 2.2	St. George	73	28	Theodore	−27	24	1.12	− 0.56	Strawberry Valley	6.70	Green River	T.
Virginia	36.1	− 1.0	Hampton	78	17	Burkes Garden	− 2	19	2.55	− 1.24	Speers Ferry	3.88	New Castle	1.34
Washington	31.3	− 4.0	2 stations	61	13†	Newport	−23	22	4.36	+ 0.32	Yale	17.41	Omak	0.25
West Virginia	31.5	+ 1.3	Logan	72	27	Pickens	−11	7	3.18	− 0.07	Pickens	6.56	Nuttalburg	0.98
Wisconsin	14.0	− 1.3	2 stations	48	1†	Long Lake	−42	18	0.84	− 0.35	Florence	2.49	Mondovi	0.15
Wyoming	17.1	− 3.7	Eatons Ranch	76	5	Lolobama Ranch	−39	16	0.88	− 0.24	Thumb, Y. N. P.	7.21	Chugwater	0.00

*Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut. †Other dates also.

TABLE 1.—*Climatological data for U. S. Weather Bureau stations, February, 1910.*

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.								Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness during daylight, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.			Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	Date.					
New England.							**25.4**	**− 0.2**									**76**	**4.04**	**+ 0.8**									**5.9**	
Eastport	76	67	85	29.93	30.02	+ .04	22.6	+ 1.2	44	21	30	− 2	8	15	31	21	17	81	4.52	+ 0.9	16	9,479	w.	60	ne.	12	7	6	15	6.9	28.5
Greenville	1,070	6	....	28.82	30.05	.....	14.2	.....	40	21	24	−24	25	4	40	.....	.....	.....	3.51	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29.2
Portland, Me.	103	81	117	29.93	30.06	+ .04	23.2	− 0.6	49	21	32	− 3	7	15	30	20	15	72	4.84	+ 1.2	12	7,208	n.	32	ne.	12	9	9	10	5.5	37.5
Concord	288	70	79	29.73	30.06	+ .02	21.7	− 1.9	56	28	33	−14	25	11	44	.....	.....	.....	4.77	+ 1.5	10	4,336	nw.	31	w.	23	11	5	12	5.4	28.3
Burlington	404	11	48	29.61	30.09	+ .06	16.1	− 1.8	45	16	26	−17	7	7	38	.....	.....	.....	3.00	+ 1.6	14	9,423	s.	56	s.	26	4	13	11	6.7	27.6
Northfield	876	16	70	29.09	30.08	+ .04	14.8	− 2.4	51	16	26	−23	25	3	46	13	11	88	3.63	+ 1.4	15	5,325	s.	31	s.	27	6	6	16	6.9	38.3
Boston	125	115	188	29.93	30.08	+ .04	29.4	+ 1.4	60	16	38	− 3	7	21	31	26	21	73	3.44	0.0	11	8,710	w.	43	ne.	12	11	5	12	5.5	12.6
Nantucket	12	14	90	30.04	30.05	+ .01	32.2	− 0.4	51	12	38	3	7	26	26	30	25	77	3.41	+ 0.3	11	13,246	w.	53	sw.	12	8	9	11	6.2	3.3
Block Island	26	11	46	30.05	30.08	+ .02	30.9	− 0.3	52	18	37	− 1	7	25	33	29	26	83	4.22	− 0.1	10	14,489	nw.	67	s.	18	8	9	11	5.7	1.0
Narragansett	.....	9	.....	.....	.....	.....	30.8	+ 2.5	55	1	39	− 4	7	22	31	.....	.....	.....	4.41	.....	10	.....	nw.	.....	.....	.....	16	5	7	.....	2.0
Providence	160	141	165	29.91	30.09	+ .04	28.6	− 0.4	60	16	37	− 4	7	20	33	26	20	73	3.86	− 0.6	11	8,146	nw.	44	w.	23	9	11	8	5.4	10.6
Hartford	159	122	140	29.92	30.10	+ .04	27.2	0.0	57	16	35	− 6	7	19	30	24	19	70	4.43	+ 0.9	11	5,866	nw.	35	w.	23	8	10	10	5.7	12.2
New Haven	106	116	155	29.98	30.10	+ .03	29.2	+ 0.9	55	21	37	− 4	7	22	26	25	18	65	4.37	+ 0.6	10	7,230	nw.	36	w.	23	10	10	8	5.1	6.2
Mid. Atlantic States.							**32.2**	**− 0.4**									**72**	**2.69**	**− 0.4**									**5.3**	
Albany	97	102	115	30.01	30.12	+ .05	21.6	− 2.0	48	28	31	−10	7	12	41	20	16	81	3.29	+ 0.8	15	6,052	s.	31	s.	27	11	7	10	5.4	25.1
Binghamton	871	78	88	29.14	30.11	+ .03	22.6	− 2.1	54	28	32	− 8	25	14	35	.....	.....	.....	2.57	+ 0.7	14	4,694	w.	28	sw.	27	7	5	16	6.8	17.1
New York	314	108	350	29.76	30.12	+ .04	31.4	+ 0.7	59	28	38	2	7	25	20	28	21	65	4.07	+ 0.3	9	9,679	w.	45	w.	23	8	10	10	5.6	5.3
Harrisburg	374	94	104	29.74	30.16	+ .07	29.2	− 0.7	53	27	36	2	7	22	22	26	19	69	3.54	+ 0.8	11	5,233	w.	34	nw.	6	9	8	11	5.9	9.9
Philadelphia	117	116	184	30.03	30.16	+ .06	34.4	+ 1.6	64	27	42	5	7	27	27	30	25	72	2.99	− 0.4	10	8,148	nw.	37	nw.	6	11	8	9	5.0	4.2
Scranton	805	111	119	29.23	30.13	+ .05	26.2	− 0.7	52	28	34	− 4	7	18	28	23	17	71	3.94	+ 1.2	12	5,462	sw.	38	w.	23	10	8	10	5.7	12.3
Atlantic City	52	37	48	30.09	30.15	+ .04	33.2	+ 0.3	55	22	40	3	7	27	26	30	25	75	2.74	− 0.5	11	6,917	nw.	33	sw.	18	10	8	10	5.3	3.7
Cape May	17	9	56	30.15	30.17	+ .06	33.8	− 0.3	52	16	40	7	7	27	22	30	26	78	2.33	− 1.0	11	7,487	w.	39	s.	18	9	8	11	5.2	1.3
Baltimore	123	100	113	30.03	30.16	+ .05	34.8	+ 0.2	67	16	42	8	7	28	27	30	23	66	2.28	− 1.2	9	5,618	sw.	29	nw.	6	13	7	8	4.4	3.8
Washington	112	62	85	30.04	30.16	+ .05	34.7	+ 0.2	68	16	43	8	7	27	28	30	23	66	2.20	− 1.2	9	5,887	nw.	42	nw.	18	11	10	7	4.9	3.4
Cape Henry	18	9	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lynchburg	681	83	88	29.41	30.18	+ .07	36.8	− 1.4	65	16	46	15	7	28	35	32	26	70	3.58	+ 0.1	11	3,461	nw.	27	nw.	6	12	6	10	5.3	2.7
Mount Weather	1,725	10	54	28.23	30.14	+ .03	29.0	− 0.1	58	16	37	1	7	21	31	26	20	73	2.45	− 0.7	11	13,482	nw.	76	nw.	18	12	5	11	5.4	4.1
Norfolk	91	102	111	30.08	30.18	+ .07	43.2	+ 1.4	76	28	52	13	7	34	32	37	31	69	2.10	− 1.6	12	8,293	s.	32	sw.	16	13	5	10	4.8	6.0
Richmond	144	189	197	30.03	30.19	+ .08	39.4	− 0.5	75	28	49	10	7	30	33	.....	.....	.....	2.33	− 0.7	10	7,125	sw.	40	nw.	4	7	13	8	5.1	0.7
Wytheville	2,293	40	47	27.71	30.19	+ .07	32.8	− 2.3	63	16	42	8	19	24	33	29	26	81	1.87	− 2.2	9	4,797	w.	37	w.	9	14	3	11	4.7	8.5
S. Atlantic States.							**46.0**	**− 1.8**									**74**	**3.58**	**− 0.2**									**5.4**	
Asheville	2,255	53	75	27.76	30.21	+ .08	35.9	− 2.6	60	15	46	11	13	26	37	32	29	79	2.39	− 2.3	8	6,954	nw.	34	nw.	18	13	3	12	5.0	4.6
Charlotte	773	68	76	29.33	30.19	+ .07	41.2	− 2.9	69	28	50	17	13	32	33	35	28	67	3.59	− 0.8	10	5,867	ne.	32	sw.	17	14	2	12	5.0	0.2
Hatteras	11	12	47	30.16	30.17	+ .06	46.8	+ 0.2	66	17	54	18	7	40	29	44	41	85	2.60	− 1.9	14	13,340	sw.	60	ne.	24	9	10	9	5.2	0.4
Manteo	12	12	46	.....	.....	.....	43.6	.....	69	16	52	15	7	35	.....	.....	.....	.....	2.98	− 1.3	9	.....	s.	.....	.....	.....	16	7	5	.....	.....
Raleigh	376	103	110	29.77	30.19	+ .08	41.6	− 1.7	74	17	51	18	7	32	31	36	29	67	2.80	− 1.5	12	7,113	sw.	36	sw.	17	15	4	9	4.4	0.2
Wilmington	78	81	91	30.11	30.20	+ .08	47.3	− 0.4	73	23	58	22	7	37	29	41	36	72	6.61	+ 3.2	10	6,951	sw.	35	sw.	17	9	8	11	5.2	
Charleston	48	14	92	30.14	30.19	+ .07	49.4	− 2.3	74	22	58	29	13	41	25	44	41	80	3.64	+ 0.2	12	8,251	sw.	46	e.	24	9	8	11	5.4	
Columbia, S. C.	351	41	57	29.80	30.19	+ .08	45.4	− 2.4	74	28	55	21	13	36	28	38	31	67	6.98	+ 2.4	9	5,687	ne.	41	w.	17	9	8	11	5.8	
Augusta	180	89	97	30.00	30.20	+ .08	46.3	− 2.7	74	28	56	22	13	36	30	40	34	69	5.21	+ 0.8	12	5,035	nw.	42	w.	17	9	5	14	5.8	
Savannah	65	150	194	30.14	30.22	+ .10	50.8	− 1.7	73	9	59	30	14	42	25	45	40	74	3.13	− 0.2	11	9,186	s.	48	w.	17	9	4	15	6.1	
Jacksonville	43	96	129	30.14	30.19	+ .07	55.2	− 1.7	80	28	64	32	14	46	29	50	47	83	2.43	− 1.0	12	6,734	ne.	37	s.	15	7	11	10	6.0	
Florida Peninsula.							**64.6**	**− 1.4**									**81**	**3.05**	**− 0.6**									**4.2**	
Jupiter	28	10	46	30.13	30.16	+ .08	65.0	− 1.3	81	24	72	40	6	58	25	60	58	81	2.33	− 0.7	8	8,754	s.	36	s.	11	6	10	12	6.4	
Key West	22	10	53	30.11	30.13	+ .06	69.0	− 1.8	81	27	74	52	14	64	15	63	60	79	0.83	− 0.8	2	6,725	e.	28	n.	13	21	6	1	3.0	
Sand Key	25	41	71	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tampa	35	79	96	30.14	30.18	+ .08	59.8	− 1.1	81	28	68	35	14	51	28	54	52	83	3.00	− 0.3	5	5,654	ne.	38	w.	11	12	7	9	4.9	
East Gulf States.							**47.9**	**− 2.9**									**74**	**5.36**	**+ 0.6**									**5.3**	
Atlanta	1,174	190	216	29.93	30.20	+ .08	42.0	− 3.2	68	23	51	16	13	33	37	37	32	72	4.13	− 0.5	10	9,156	se.	48	nw.	17	10	5	13	5.4	T.
Macon	370	78	87	29.79	30.20	+ .08	46.4	− 2.5	74	27	56	22	13	37	34	.....	.....	.....	4.43	− 0.2	7	5,092	ne.	38	sw.	17	11	4	13	5.5	
Thomasville	273	8	57	29.89	30.19	+ .07	51.0	− 4.0	79	27	61	24	14	40	36	45	42	79	5.50	+ 1.0	12	4,493	s.	33	sw.	17	8	7	13	6.1	
Pensacola	56	140	183	30.10	30.16	+ .05	52.4	− 3.1	69	22	60	26	18	45	33	.....	.....	.....	6.57	+ 2.1	12	11,151	se.	60	s.	17	9	8	11	5.9	
Anniston	741	9	57	29.40	30.21	+ .09	44.0	− 1.8	71	27	55	16	13	33	39	.....	.....	.....	5.67	+ 1.0	9	5,353	n.	38	se.	11	7	7	14	6.5	T.
Birmingham	700	11	48	29.42	30.20	+ .08	44.4	− 3.9	68	22	54	18	13	35	39	38	33	69	4.17	− 0.6	10	6,296	se.	34	s.	17	9	13	5	6.3	T.
Mobile	57	98	106	30.10	30.16	+ .05	52.4	− 0.8	75	22	61	26	18	44	33	47	42	74	6.40	+ 1.0	13	6,048	n.	32	w.	17	9	8	11	5.5	T.
Montgomery	223	100	112	29.93	30.19	+ .07	48.1	− 3.2	75	27	58	22	18	38	37	43	37	70	6.58	+ 1.1	12	4,771	se.	28	e.	11	10	5	13	5.8	T.
Meridian	375	84	93	29.77	30.18	+ .07	46.6	− 2.5	71	16	56	19	18	37	44	42	38	79	5.62	+ 0.7	10	4,782	ne.	22	nw.	17	8	7	13	6.0	T.
Vicksburg	247	62	74	29.89	30.18	+ .08	46.4	− 4.5	72	16	56	19	18	37	35	41	36	70	5.40	+ 0.8	10	5,703	n.	33	sw.	27	8	6	14	6.1	0.2
New Orleans	51	90	121	30.10	30.15	+ .06	53.6	− 2.7	79	21	62	26	18	45	39	49	46	80	4.75	+ 0.3	10	6,735	ne.	34	nw.	17	8	12	8	5.1	
West Gulf States.							**45.2**	**− 4.0**									**72**	**2.63**	**− 0.1**									**5.4**	
Shreveport	249	77	84	29.90	30.18	+ .09	45.8	− 4.2	72	15	56	12	18	36	38	41	36	75	4.53	+ 0.9	10	5,646	se.	28	se.	16	8	5	15	6.3	2.7
Bentonville	1,303	11	44	28.75	30.17	+ .07	32.8	− 5.7	64	15	44	−10	18	22	38	.....	.....	.....	2.59	+ 0.1	7	5,394	s.	27	s.	15	14	2	12	5.2	10.9
Fort Smith	457	79	94	29.68	30.18	+ .08	38.6	− 3.2	72	15	49	1	18	28	35	32	24	60	1.82	− 0.9	6	6,796	e.	38	sw.	15	8	9	11	5.5	2.0
Little Rock	357	139	147	29.80	30.20	+ .09	40.4	− 3.7	68	5	50	9	18	31	45	34	27	67	4.59	+ 0.4	9	7,041	e.	40	sw.	15	10	6	12	5.6	4.1
Brownsville	57	4	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corpus Christi	20	69	77	30.11	30.13	+ .08	54.6	− 3.1	75	2	62	26	18	47	42	50	47	80	0.66	− 1.4	4	9,671	n.	42	se.	2	9	10	9	5.5	
Fort Worth	670	106	114	29.44	30.17	+ .10	44.6	− 3.5	77	15	57	11	17	33	50	.....	.....	.....	1.14	− 0.1	6	8,705	nw.	37	se.	1	14	8	6	4.3	1.5
Galveston	54	106	112	30.10	30.16	+ .09	51.0	− 4.6	72	21	57	24	18	45	28	48	45	82	4.41	+ 1.3	7	8,773	se.	48	se.	2	5	8	15	6.5	0.1
Palestine	510	73	79	29.62	30.16	+ .08	45.6	− 5.3	73	15	56	12	18	35	43	41	36	72	3.18	− 0.2	9	6,115	s.	35	sw.	15	8	11	9	5.9	2.2
San Antonio	701	80	91	29.39	30.14	+ .09	51.6	− 2.8	80	21	64	19	18	40	37	45	39	66	0.78	− 1.0	8	5,358	n.	32	n.	17	11	10	7	5.1	0.1
Taylor	583	55	63	29.54	30.17	+ .11	47.2	− 4.1	76	22	58	16	18	36	44	.....	.....	.....	2.57	0.0	7	7,202	n.	36	sw.	15	12	9	7	4.6	0.4
Ohio Val. and Tenn.							**32.9**	**− 3.3**									**73**	**4.11**	**+ 0.5**									**6.0**	
Chattanooga	762	189	213	29.38	30.22	+ .09	41.0	− 2.7	64	16	50	16	13	32	35	35	29	66	4.23	− 0.7	10	6,896	n.	40	w.	17	10	5	13	5.8	2.6
Knoxville	996	93	100	29.10	30.19	+ .07	39.0	− 1.8	66	16	48	16	13	30	37	34	28	70	4.19	− 0.7	8	4,246	sw.	28	sw.	17	12	7	9	5.0	4.1
Memphis	399	76	97	29.78	30.22	+ .11	39.3	− 4.0	65	15	48	9	18	30	39	34	26	69	4.37	0.0	8	6,704	n.	38	nw.	17	10	5	13	5.7	7.0
Nashville	546	168	191	29.61	30.21	+ .09	37.6	− 3.5	62	27	47	6	18	28	32	34	28	72	4.87	+ 0.6	11	8,023	nw.	40	se.	27	10	6	12	5.5	8.9
Lexington	989	75	102	29.10	30.22	+ .11	31.4	− 4.2	60	27	40	4	18	23	30	.....	.....	.....	4.11	+ 0.9	11	8,308	s.	38	w.	9	7	8	13	6.2	8.9
Louisville	525	111	132	29.61	30.21	+ .10	33.0	− 3.6	58	15	42	5	18	24	35	29	23	69	5.62	+ 1.9	12	6,256	s.	30	w.	12	9	8	11	5.5	17.4
Evansville	431	72	82	29.72	30.21	+ .10	32.4	− 3.4	58	15	40	1	18	24	24	.....	.....	.....	2.99	− 0.1	13	6,120	s.	41	s.	15	9	10	9	5.4	13.3
Indianapolis	822	154	164	29.26	30.18	+ .08	26.8	− 3.9	55	15	35	− 2	18	19	24	24	19	74	4.00	+ 0.9	11	7,378	s.	34	sw.	4	8	9	11	6.0	21.0
Cincinnati	628	152	160	29.49	30.20	+ .10	30.6	− 3.8	56	27	39	1	19	22	34	27	22	72	4.70	+ 1.5	12	5,125	se.	25	nw.	9	9	5	14	6.3	20.6
Columbus	824	173	222	29.26	30.17	+ .08	26.2	− 4.8	49	27	34	1	19	18	31	24	20	76	5.05	+ 2.0	10	9,186	s.	41	w.	23	10	5	13	6.1	29.2
Pittsburg	842	336	352	29.22	30.16	+ .07	28.6	− 3.2	55	27	37	2	7	20	29	25	21	75	3.60	+ 0.9	13	7,862	nw.	39	nw.	6	6	9	13	6.7	16.2
Parkersburg	638	77	84	29.51	30.19	+ .09	31.2	− 2.7	64	27	40	8	7	23	31	27	23	78	3.42	+ 0.2	12	4,895	s.	34	nw.	9	7	5	16	6.9	12.2
Elkins	1,940	41	50	28.04	30.19	+ .09	30.6	− 0.9	61	27	41	− 5	7	20	47	27	25	86	2.22	− 1.0	13	3,659	w.	25	w.	9	7	7	14	6.6	10.7
Lower Lake Region.							**32.2**	**− 2.3**									**79**	**3.61**	**+ 1.2**									**6.9**	
Buffalo	767	178	206	29.24	30.11	+ .05	21.9	− 2.1	47	27	30	− 6	6	14	33	20	17	82	5.74	+ 2.9	17	10,928	sw.	56	w.	23	5	5	18	7.1	43.7
Canton	448	10	71	29.59	30.10	.....	15.2	− 2.8	43	27	25	−27	11	5	42	.....	.....	.....	2.87	+ 0.3	19	8,223	sw.	38	w.	16	7	9	12	6.4	17.1
Oswego	335	76	91	29.71	30.10	+ .04	21.5	− 2.4	48	16	29	−10	7	14	36	20	17	85	5.02	+ 2.4	19	8,896	s.	41	w.	23	2	5	21	8.4	39.6
Rochester	523	86	102	29.52	30.12	+ .06	22.2	− 1.7	48	16	30	− 2	7	15	32	19	16	77	3.73	+ 0.9	18	6,749	w.	34	w.	23	5	9	14	6.9	42.7
Syracuse	597	97	113	29.44	30.11	+ .04	22.1	− 1.7	48	16	30	−11	7	14	30	.....	.....	.....	3.64	+ 1.8	16	9,192	s.	54	s.	20	4	8	16	7.3	36.7
Erie	714	92	102	29.32	30.12	+ .05	23.7	− 2.4	49	15	32	− 1	25	16	33	21	17	78	4.02	+ 1.2	16	8,391	s.	40	sw.	15	3	9	16	7.2	20.7
Cleveland	762	190	201	29.28	30.14	+ .07	23.8	− 3.0	50	15	31	1	25	16	37	22	17	77	3.98	+ 1.4	14	11,399	s.	48	n.	17	6	6	16	7.0	30.5
Sandusky	629	62	70	29.44	30.16	+ .09	24.5	− 2.6	48	26	32	2	19	17	28	.....	.....	.....	2.97	+ 0.6	12	6,302	sw.	31	n.	3	8	7	13	6.1	18.4
Toledo	628	207	246	29.44	30.16	+ .09	24.9	− 1.9	49	15	32	1	19	17	26	22	18	75	2.32	+ 0.4	12	10,853	sw.	43	w.	22	10	6	12	6.0	9.2
Detroit	730	218	258	29.31	30.14	+ .08	22.4	− 2.6	46	15	29	3	19	16	25	20	16	78	1.84	− 0.4	13	10,425	sw.	46	w.	22	5	10	13	6.7	9.1

TABLE I.—*Climatological data for U. S. Weather Bureau stations, February, 1910*—Continued.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.								Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.				Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness during daylight, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. ÷ 2	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.			Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.				
Upper Lake Region.							**16.3**	**— 2.2**									**79**	**1.34**	**— 0.4**									**6.0**	
Alpena	609	13	92	29.41	30.11	+ .08	17.0	— 0.8	38	14	26	—11	25	8	33	15	11	81	1.09	— 0.7	11	8,309	nw.	42	e.	15	6	12	10	5.7	10.4
Escanaba	612	40	82	29.42	30.13	+ .07	14.2	— 1.1	38	3	24	—15	23	5	39	11	6	75	1.47	+ 0.1	7	6,664	nw.	35	nw.	4	12	5	11	5.2	14.7
Grand Haven	632	54	92	29.41	30.13	+ .08	22.8	— 1.4	43	15	29	3	23	17	25	21	18	81	1.59	— 0.3	13	8,755	n.	49	w.	15	4	10	14	6.9	13.6
Grand Rapids	707	127	162	29.33	30.14	+ .09	22.8	— 2.7	48	15	29	0	23	16	23	21	17	81	1.15	— 0.8	13	8,113	s.	44	w.	15	4	6	18	7.5	4.9
Houghton	668	66	74	29.36	30.12	+ .07	12.2	— 3.8	38	7	20	—16	25	4	41	.....	.....	.....	1.54	— 0.2	15	4,826	w.	26	w.	3	6	11	11	6.3	21.6
Marquette	734	77	116	29.28	30.13	+ .08	15.2	— 0.7	43	7	23	—10	23	8	29	13	9	80	2.81	+ 1.1	13	7,902	w.	38	sw.	2	6	10	12	6.4	30.1
Port Huron	638	70	120	29.39	30.12	+ .07	20.1	— 1.9	43	15	28	— 3	24	12	29	18	14	80	1.25	— 0.9	10	8,674	sw.	41	w.	15	8	6	14	6.2	9.4
Sault Sainte Marie	614	11	61	29.39	30.13	+ .10	9.8	— 3.6	34	3	20	—23	19	— 1	40	8	4	81	1.56	+ 0.2	12	5,654	se.	38	nw.	4	9	8	11	5.5	19.4
Chicago	823	140	310	29.24	30.16	+ .08	24.8	— 0.6	51	15	31	— 6	23	18	26	23	18	74	0.89	— 1.3	6	10,864	sw.	48	w.	15	6	9	13	6.6	2.8
Milwaukee	681	122	139	29.39	30.16	+ .10	19.3	— 2.6	43	15	27	—11	23	12	29	17	13	77	0.58	— 1.3	6	7,458	w.	44	e.	15	11	9	8	4.8	5.1
Green Bay	617	49	86	29.43	30.13	+ .07	15.2	— 2.0	38	26	24	—16	23	6	27	13	9	77	1.07	— 0.5	10	6,616	sw.	34	ne.	15	8	7	13	6.3	10.8
Duluth	1,133	11	47	28.86	30.16	+ .08	8.4	— 5.2	33	28	18	—22	23	— 1	31	6	3	83	1.13	+ 0.1	8	10,132	nw.	51	ne.	15	15	6	7	4.2	12.1
North Dakota.							**3.5**	**— 3.4**									**90**	**0.42**	**— 0.1**									**4.7**	
Moorhead	940	8	57	29.14	30.22	+ .11	4.7	— 2.3	38	28	15	—29	18	— 6	37	3	1	90	0.52	— 0.2	7	6,354	nw.	29	n.	15	16	9	3	3.6	6.2
Bismarck	1,674	8	57	28.34	30.26	+ .14	4.0	— 4.3	43	28	15	—37	18	— 7	35	3	1	91	0.57	+ 0.1	5	6,681	nw.	40	w.	28	13	5	10	5.0	12.3
Devils Lake	1,482	11	44	28.50	30.19	+ .08	2.8	— 1.7	38	28	13	—28	18	— 8	37	1	—1	88	0.27	— 0.3	7	8,342	w.	38	w.	28	13	5	10	4.8	3.6
Williston	1,872	14	56	28.09	30.20	+ .09	2.4	— 5.5	43	28	13	—40	18	— 8	35	3	0	91	0.34	— 0.1	4	5.800	w.	52	w.	28	8	15	5	5.3	3.4
Upper Miss. Valley.							**21.4**	**— 3.2**									**77**	**1.03**	**— 0.7**									**5.2**	
Minneapolis	918	102	208	.....	.....	.....	11.6	.....	45	1	21	—18	23	2	27	.....	.....	.....	0.51	— 0.2	6	8,534	nw.	37	e.	15	14	7	7	4.2	6.1
St. Paul	837	171	179	29.22	30.18	+ .09	11.0	— 4.0	46	1	21	—20	23	1	28	10	6	78	0.42	— 0.4	5	7,761	nw.	35	nw.	22	9	14	5	4.5	4.5
La Crosse	714	11	48	29.36	30.17	+ .09	15.1	— 3.3	42	1	25	—14	23	5	30	.....	.....	.....	0.51	— 0.6	7	3,858	s.	17	nw.	22	8	10	10	5.7	4.0
Madison	974	70	78	29.04	30.16	+ .09	15.5	— 4.1	38	26	24	—14	23	7	35	13	9	77	0.74	— 0.7	6	6,906	nw.	36	n.	3	6	13	9	5.5	6.4
Charles City	1,015	10	49	29.05	30.19	+ .09	10.9	— 4.2	37	1	22	—17	10	0	31	11	9	89	0.61	— 0.4	6	5,042	nw.	28	se.	25	8	9	11	6.2	7.7
Davenport	606	71	79	29.49	30.19	+ .09	21.0	— 2.8	52	15	30	— 8	23	12	32	19	16	80	0.59	— 1.0	6	5,740	nw.	30	w.	15	12	8	8	4.7	3.5
Des Moines	861	84	101	29.22	30.17	+ .06	20.2	— 3.9	49	14	30	— 9	23	10	33	19	16	83	0.20	— 0.9	3	5,858	nw.	31	w.	15	7	8	13	6.2	1.8
Dubuque	698	100	115	29.42	30.21	+ .12	18.0	— 3.6	45	15	27	—11	23	9	31	16	12	79	0.50	— 0.9	6	4,772	nw.	29	nw.	15	8	13	7	5.0	4.6
Keokuk	614	64	78	29.50	30.21	+ .10	26.1	— 0.5	58	15	35	— 6	23	17	29	22	16	72	0.99	— 0.6	4	5,740	nw.	36	w.	15	14	8	6	4.4	1.3
Cairo	356	87	93	29.82	30.22	+ .10	34.4	— 3.2	61	15	43	5	18	26	29	29	22	66	3.29	0.0	12	7,840	n.	38	sw.	15	9	6	13	5.9	3.9
La Salle	536	56	64	29.60	30.20	+ .12	22.0	— 3.0	57	15	30	—11	23	14	34	.....	.....	.....	1.17	— 1.3	5	6,219	w.	30	w.	15	10	8	10	5.2	3.6
Peoria	609	11	45	29.50	30.20	+ .12	23.8	— 2.1	60	15	33	— 9	23	15	38	21	16	75	1.10	— 1.6	5	6,545	s.	37	w.	15	11	9	8	5.1	2.1
Springfield, Ill.	644	10	91	29.47	30.18	+ .08	26.2	— 2.9	63	15	35	— 5	18	18	37	23	19	75	0.94	— 1.8	8	7,412	s.	36	sw.	15	10	8	10	5.3	5.4
Hannibal	534	75	109	29.60	30.20	+ .09	26.8	— 2.3	62	15	36	— 4	23	17	43	.....	.....	.....	0.65	— 1.0	3	6,914	n.	38	sw.	15	12	9	7	4.6	1.7
St. Louis	567	208	317	29.55	30.18	+ .07	29.2	— 4.3	65	15	38	— 1	23	20	35	26	22	75	3.22	+ 0.5	12	8,462	s.	34	sw.	15	10	7	11	5.2	21.3
Missouri Valley.							**21.9**	**— 2.5**									**78**	**0.62**	**— 0.4**									**4.4**	
Columbia, Mo.	784	11	84	29.31	30.17	+ .06	27.4	— 2.7	63	15	37	— 2	18	17	46	.....	.....	.....	1.09	— 1.0	8	6,445	se.	38	sw.	15	13	7	8	4.2	7.4
Kansas City	963	161	181	29.10	30.18	+ .07	28.2	— 1.7	64	14	38	— 5	23	18	46	25	19	67	0.79	— 0.8	6	9,052	n.	46	nw.	15	13	5	10	4.6	1.5
Springfield, Mo.	1,324	98	104	28.72	30.18	+ .07	28.9	— 4.7	62	15	38	— 5	18	19	37	26	23	80	2.24	0.0	9	8,503	se.	35	sw.	15	14	2	12	4.8	15.9
Iola	984	11	50	29.10	30.20	+ .10	29.6	— 2.4	65	1	40	4	23	19	33	.....	.....	.....	0.89	— 0.2	4	6,563	n.	30	ne.	16	15	4	9	4.4	4.4
Topeka	983	85	101	.....	.....	.....	28.2	— 1.8	64	14	39	— 2	23	18	48	.....	.....	.....	0.87	— 0.5	4	7,739	s.	46	nw.	15	17*	2	9	4.1	0.4
Lincoln	1,189	11	84	28.86	30.18	+ .08	24.2	— 0.6	58	14	35	— 7	22	14	44	21	16	72	0.18	— 0.5	1	8,072	n.	46	nw.	15	12	10	6	4.7	2.7
Omaha	1,105	115	121	28.95	30.19	+ .08	22.7	— 1.0	51	14	33	— 8	22	13	41	20	15	75	0.28	— 0.5	2	7,012	s.	35	n.	22	12	9	7	4.7	3.0
Valentine	2,598	47	54	27.34	30.19	+ .10	19.8	— 1.4	57	28	32	—14	22	7	43	16	12	78	0.26	— 0.3	3	6,803	nw.	37	nw.	15	15	13	0	3.3	2.7
Sioux City	1,135	96	164	28.92	30.20	+ .08	17.4	— 2.4	46	28	28	—11	22	7	32	15	11	79	0.22	— 0.3	3	9,508	nw.	60	nw.	15	10	10	8	4.8	2.2
Pierre	1,572	70	75	28.47	30.24	+ .13	12.1	— 4.8	49	28	22	—16	19	3	30	9	4	72	0.14	— 0.3	5	6,451	nw.	45	nw	15	13	11	4	4.0	2.1
Huron	1,306	56	67	28.75	30.24	+ .12	7.8	— 5.1	40	28	19	—20	19	— 3	36	6	5	89	0.23	— 0.2	3	7,751	nw.	39	nw.	15	16	6	6	3.9	2.4
Yankton	1,233	49	57	28.81	30.20	+ .08	17.0	— 1.2	47	1	28	—12	22	6	39	.....	.....	.....	0.21	— 0.4	2	6,580	nw.	40	nw.	15	7	14	7	5.4	3.3
Northern Slope.							**17.3**	**— 4.2**									**75**	**0.75**	**0.0**									**5.0**	
Havre	2,505	11	44	27.42	30.20	+ .13	11.5	— 3.5	50	4	23	—33	22	0	46	10	7	84	0.79	+ 0.3	8	6,123	sw.	37	sw.	28	9	10	9	5.6	8.1
Miles City	2,371	26	48	27.55	30.24	+ .15	12.8	— 4.0	49	28	24	—29	22	2	38	10	7	85	0.80	+ 0.2	8	3,796	s.	38	w.	28	12	9	7	4.3	7.6
Helena	4,110	8	56	25.79	30.18	+ .07	16.4	— 5.8	48	13	26	—29	22	7	42	13	9	77	1.18	+ 0.4	11	4,190	w.	36	sw.	28	7	8	13	6.1	19.3
Kalispell	2,962	11	34	26.97	30.16	+ .08	18.2	— 5.6	42	27	26	—22	22	10	26	16	14	84	2.06	+ 0.6	14	3,074	nw.	36	sw.	28	4	9	15	6.9	19.1
Rapid City	3,234	46	50	26.62	30.22	+ .14	19.4	— 4.1	58	28	31	—17	22	8	44	15	9	69	0.14	— 0.3	4	4,616	w.	40	n.	28	12	13	3	4.3	1.4
Cheyenne	6,088	56	64	23.92	30.10	+ .07	23.2	— 3.1	59	14	36	—10	22	11	40	19	11	61	0.31	— 0.2	5	8,434	nw.	50	nw.	15	7	12	9	5.4	3.5
Lander	5,372	26	36	24.60	30.22	+ .14	12.2	— 9.6	51	13	26	—22	3	— 2	53	10	4	69	0.39	— 0.3	5	2,483	ne.	35	w.	14	10	16	2	4.1	5.5
Sheridan	3,790	9	47	26.09	30.18	.....	15.7	.....	52	28	28	—23	22	3	47	13	9	77	0.23	.....	7	3,612	nw.	36	nw.	14	12	10	6	4.4	3.8
Yellowstone Park	6,200	11	48	23.78	30.16	+ .06	15.2	— 4.4	40	28	26	—20	16	4	43	13	9	79	1.61	— 0.2	18	6,354	s.	36	sw.	14	7	8	13	6.0	20.7
North Platte	2,821	11	51	27.13	30.18	+ .11	26.5	+ 1.9	67	14	41	— 6	22	12	49	20	14	66	0.02	— 0.4	1	5,821	nw.	35	nw.	8	17	8	3	3.0	0.3
Middle Slope.							**30.8**	**— 1.6**									**57**	**0.40**	**— 0.3**									**4.4**	
Denver	5,291	129	136	24.67	30.08	+ 0.7	30.2	— 0.9	67	14	44	— 5	17	17	46	24	14	57	0.35	— 0.1	7	4,060	sw.	42	w.	15	14	12	2	4.0	7.2
Leadville	10,242	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pueblo	4,685	80	86	25.26	30.07	+ .07	30.6	— 1.2	70	14	45	—17	17	16	45	24	15	57	0.52	0.0	4	5,201	nw.	44	w.	14	15	11	2	3.5	6.9
Concordia	1,398	42	50	28.65	30.18	+ .09	28.0	— 0.8	65	14	39	— 1	23	17	43	24	20	77	0.02	— 0.7	1	5,502	n.	27	nw.	15	9	13	6	4.7	0.2
Dodge City	2,509	11	51	27.45	30.17	+ .11	29.8	— 1.3	72	14	43	1	23	17	43	23	17	65	0.31	— 0.4	5	8,169	n.	46	n.	8	13	12	3	4.1	4.5
Wichita	1,358	98	121	28.72	30.21	+ .13	30.8	— 2.2	68	14	42	2	23	20	42	27	22	69	0.63	— 0.4	5	8,321	s.	40	n.	15	11	11	6	4.9	3.3
Oklahoma	1,214	10	47	28.83	30.16	+ .09	35.4	— 3.1	71	14	46	7	23	24	33	31	26	76	0.53	— 0.4	6	13,718	n.	54	n.	16	10	9	9	5.5	1.5
Southern Slope.							**43.9**	**— 0.6**									**58**	**0.12**	**— 0.9**									**4.0**	
Abilene	1,738	10	52	28.29	30.14	+ .09	44.5	— 0.3	82	15	59	11	17	30	48	36	26	56	0.21	— 0.9	3	8,416	s.	39	s.	25	11	11	6	4.6	0.1
Amarillo	3,676	10	49	26.28	30.10	+ .08	35.6	— 1.6	76	14	51	— 4	17	20	44	28	21	65	0.17	— 0.7	1	8,981	n.	48	nw.	28	15	9	4	4.4	1.7
Del Rio	944	8	57	29.12	30.12	+ .12	53.9	+ 0.3	85	26	68	20	18	40	37	.....	.....	.....	0.02	— 1.8	1	6,109	se.	42	nw.	17	21	6	1	2.8	
Roswell	3,578	9	57	26.39	30.09	+ .11	41.6	— 0.9	81	25	61	— 1	17	23	52	32	20	52	0.11	— 0.5	1	4.845	n.	35	nw.	8	11	15	2	4.3	1.1
Southern Plateau.							**42.2**	**— 1.6**									**48**	**0.15**	**— 0.8**									**2.7**	
El Paso	3,762	110	133	26.21	30.02	+ .07	47.8	— 1.1	76	25	61	12	17	35	38	36	16	32	0.10	— 0.4	1	7,947	w.	57	ne.	16	18	9	1	2.6	
Santa Fe	7,013	8	56	23.19	30.08	+ .10	30.0	— 2.0	56	24	42	— 3	17	18	31	23	13	50	0.08	— 0.8	3	6,818	n.	37	n.	27	15	10	3	3.3	1.0
Flagstaff	6,907	8	57.	23.32	30.03	+ .03	29.0	— 1.8	58	24	43	—12	3	15	42	24	16	61	0.88	— 2.4	3	5,233	sw.	37	sw.	19	12	10	6	4.5	11.4
Phoenix	1,108	50	56	28.87	30.04	+ .05	54.1	— 0.3	83	13	69	26	17	40	40	45	35	50	T.	— 0.7	0	2,873	e.	23	nw.	16	18	10	0	2.7	
Yuma	141	9	58	29.94	30.07	+ .07	57.0	— 2.2	86	28	73	30	18	41	40	44	28	37	0.00	— 0.6	0	4,904	n.	30	w.	1	27	1	0	0.7	
Brawley	†105	11	31	30.18	30.07	.....	55.6	.....	83	28	73	29	18	39	45	.....	.....	.....	0.00	0.0	0	3,911	w.	35	w.	1	17	10	1	2.8	
Independence	3,910	11	42	26.04	30.08	+ .02	41.4	— 2.3	74	28	56	16	3	27	40	34	23	•55	T.	— 0.8	0	5,344	nw.	66	w.	14	23	5	0	2.1	
Middle Plateau.							**30.3**	**— 2.2**									**70**	**0.42**	**— 0.6**									**5.3**	
Reno	4,532	56	63	25.54	30.18	+ .10	34.4	— 1.2	64	13	45	4	3	24	33	29	23	64	0.16	— 1.6	6	4,065	w.	34	w.	14	9	15	4	4.8	2.1
Tonopah	6,090	12	20	24.08	30.11	.....	32.6	.....	57	28	41	2	2	24	33	28	21	63	0.12	— 0.6	3	7,082	nw.	54	w.	14	11	11	6	5.0	2.0
Winnemucca	4,344	18	56	25.69	30.21	+ .12	27.3	— 6.0	55	28	39	—15	3	16	40	25	23	87	0.89	0.0	10	5,165	sw.	40	sw.	14	7	8	13	6.2	9.6
Modena	5,479	10	43	24.62	30.09	+ .05	30.4	— 1.2	59	28	42	1	4	18	31	27	22	72	0.13	— 0.6	2	6,742	w.	49	sw.	14	8	15	5	5.4	1.5
Salt Lake City	4,360	147	189	25.66	30.14	+ .06	31.6	— 1.3	56	14	39	12	16	24	28	28	23	74	1.00	— 0.4	16	4,504	se.	52	nw.	14	5	10	13	6.6	10.9
Durango	6,546	18	56	23.61	30.09	+ .09	27.1	— 2.8	53	14	40	— 2	17	14	36	22	14	63	0.98	— 0.4	7	3,721	nw.	26	w.	28	10	12	6	4.7	10.4
Grand Junction	4,608	43	51	25.41	30.07	+ .03	31.0	— 0.5	57	14	41	11	17	21	31	26	20	67	0.14	— 0.4	4	2,922	nw.	24	sw.	14	12	11	5	4.3	1.2
Northern Plateau.							**32.7**	**— 4.2**									**76**	**1.63**	**+ 0.2**									**7.4**	
Baker City	3,471	48	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boise	2,739	78	86	27.28	30.23	+ .11	29.3	— 4.5	54	13	37	8	4	22	23	27	22	75	2.00	— 0.6	14	3,518	nw.	32	nw.	1	6	4	18	7.2	15.7
Lewiston	757	10	51	29.34	30.17	+ .06	32.4	— 3.8	54	27	39	8	22	26	28	.....	.....	.....	1.27	— 0.1	14	4,804	e.	45	w.	28	4	5	19	7.6	5.0
Pocatello	4,477	46	54	25.52	30.19	+ .09	24.2	— 3.9	51	13	33	—12	3	15	34	21	17	74	0.56	— 0.3	10	6,516	se.	42	sw.	28	4	9	15	7.2	8.9
Spokane	1,929	101	110	28.04	30.17	+ .06	26.9	— 3.2	44	6	33	— 4	22	20	23	25	21	75	1.58	— 0.4	15	4,558	e.	38	sw.	27	5	5	18	7.6	13.5
Walla Walla	1,000	71	79	29.09	30.20	+ .09	30.8	— 5.6	51	27	37	11	22	25	29	28	25	81	2.73	+ 1.2	15	3,528	s.	25	s.	25	6	4	18	7.2	17.5
N. Pac. Coast Reg.							**39.1**	**— 1.6**									**84**	**5.57**	**+ 2.1**									**7.7**	
Blaine	58	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Head	211	11	56	29.86	30.09	+ .03	41.1	— 1.0	54	8	46	30	22	36	16	40	38	90	6.75	+ 1.0	19	12,818	e.	73	s.	27	2	7	19	8.2	T.

TABLE I.—*Climatological data for U. S. Weather Bureau stations, February, 1910*—Continued.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.								Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness during daylight, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.					
N.P.Coast Reg.–Con.																														
Port Crescent	259	8	53	29.78	30.07	+ .04	35.2	− 2.0	49	26	41	16	21	30	19	....	....	....	5.32	+ 0.6	16	4,094	se.	24	ne.	20	2	13	13	6.8	10.3
Seattle	123	185	224	29.97	30.11	+ .05	38.3	− 2.2	50	6	44	24	21	33	20	36	34	85	5.03	+ 1.2	18	6,180	se.	40	sw.	26	1	12	15	8.1	10.7
Tacoma	213	113	120	29.86	30.10	+ .04	37.8	− 2.6	51	8	44	23	2	32	21	36	35	88	6.51	+ 1.4	20	4,215	sw.	30	sw.	28	2	8	18	8.1	9.3
Tatoosh Island	86	7	57	29.94	30.03	+ .03	39.1	− 1.9	49	7	43	25	21	36	16	38	36	87	6.47	− 2.3	17	14,971	e.	59	s.	26	3	8	17	7.7	1.3
Portland, Oreg.	153	68	106	29.98	30.15	+ .07	39.3	− 2.0	56	24	44	23	22	34	22	37	34	81	6.45	+ 0.7	20	4,770	e.	28	sw.	27	4	3	21	8.1	2.1
Roseburg	510	9	57	29.61	30.17	+ .07	42.8	+ 0.2	69	11	50	22	3	36	28	40	37	80	2.44	− 2.1	17	2,049	s.	27	sw.	24	1	14	13	7.0	T.
Mid. Pac. Coast Reg.							47.9	− 1.7										75	2.71	− 1.2									5.8	
Eureka	62	62	80	30.14	30.21	+ .10	45.8	− 1.0	59	23	52	29	2	40	23	44	41	82	7.34	+ 0.3	18	4,592	se.	38	w.	14	5	6	17	7.0	
Mount Tamalpais	2,375	11	18	27.69	30.20	+ .10	42.4	.....	61	12	47	28	1	37	17	38	33	75	4.25	+ 0.5	14	12,816	nw.	70	nw.	14	5	13	10	6.5	
Point Reyes Light	490	7	18	29.65	30.17	.....	48.6	.....	64	13	53	38	2	44	18	....	....	....	2.11	.....	12	14,064	nw.	78	nw.	1	6	11	11	6.1	
Red Bluff	332	50	56	29.85	30.22	+ .11	46.7	− 2.6	64	12	54	30	4	40	30	43	38	74	1.96	− 1.7	10	4,247	nw.	37	nw.	1	9	3	16	6.3	
Sacramento	69	106	117	30.13	30.20	+ .11	48.1	− 2.1	68	28	55	34	3	41	22	44	38	70	0.83	+ 2.3	9	6,308	se.	37	nw.	1	11	8	9	5.0	
San Francisco	155	200	204	30.05	30.22	+ .12	50.4	− 0.9	64	12	56	38	3	45	19	45	40	72	2.09	− 1.6	13	4,615	w.	37	ne.	1	11	7	10	4.8	
San Jose	141	12	110	30.06	30.21	.....	48.6	− 2.0	72	13	59	25	3	38	32	....	....	....	0.83	− 1.7	12	3,437	nw.	35	sw.	14	12	7	9	4.9	
Southeast Farallon	30	9	17	30.18	30.21	.....	49.4	.....	57	13	52	40	1	47	11	....	....	....	1.71	− 2.0	12	8,751	nw.	68	n.	1	6	15	7	6.2	
S. Pac. Coast Reg.							52.5	0.0										66	0.24	− 2.2									4.5	
Fresno	330	67	70	29.84	30.21	+ .13	49.1	− 0.1	73	13	60	26	2	38	30	44	39	70	0.21	− 1.1	6	3,163	nw.	24	nw.	25	9	11	8	5.5	
Los Angeles	338	159	191	29.76	30.13	+ .07	55.6	+ 1.5	82	12	65	38	2	46	29	46	37	57	0.11	− 2.8	2	4,686	ne.	39	nw.	27	11	12	5	4.2	
San Diego	87	94	102	30.03	30.13	+ .07	52.9	− 1.7	72	12	61	37	2	45	22	48	42	71	0.19	− 1.8	3	3,641	ne.	21	nw.	23	20	5	3	2.7	
San Luis Obispo	201	47	54	29.98	30.20	+ .09	52.4	− 0.1	77	12	62	27	3	43	35	46	40	66	0.43	− 3.2	4	4,214	nw.	22	n.	1	5	14	9	5.6	
West Indies.																														
Grand Turk	11	6	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
San Juan	82	48	90	30.00	30.09	.....	73.7	.....	81	25	79	62	5	69	17	68	65	76	3.32	+ 1.0	18	9,630	e.	33	e.	17	7	15	6	5.5	
Panama.																														
Christobal	17	5	60	29.88	29.90	.....	77.8	.....	82	21	80	71	3	75	8	74	72	85	3.58	+ 2.1	17	10,279	ne.	36	ne.	14	7	18	3	4.6	
Culebra	172	4	30	29.47	29.89	.....	77.5	.....	90	28	86	67	2	70	22	71	69	87	0.93	+ 0.4	9	6,953	nw.	33	n.	14	1	26	1	5.3	
Ancon	92	6	69	29.78	29.87	.....	79.6	.....	92	21	89	67	11	70	21	72	71	86	0.43	− 0.3	8	6,681	nw.	25	n.	7	0	23	5	6.7	
Alhajuela	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.58	+ 1.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bohio	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.89	+ 4.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gatun	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.33	+ 0.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

† Below sea level.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.80 inch in 1 hour, during February, 1910, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated. 5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Abilene, Tex	1	.....	.....	0.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.05	.....	.....	.....
Albany, N. Y	17–18	.....	.....	0.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Alpena, Mich	15	.....	.....	0.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Amarillo, Tex	16	.....	.....	0.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Anniston, Ga	17	9:10 a. m.	4:00 p. m.	2.26	9:51 a. m.	10:26 a. m.	0.01	0.13	0.51	0.71	0.83	0.93	1.08	1.21	.....	.....	.....	.....	.....	.....	.....
Asheville, N. C	17	.....	.....	0.67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.27	.....	.....	.....
Atlanta, Ga	17	.....	.....	1.14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.54	.....	.....	.....
Atlantic City, N. J	12	.....	.....	0.99†	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.33	.....	.....	.....
Augusta, Ga	23–24	9:00 p. m.	11:00 a. m.	2.42	9:39 p. m.	9:49 p. m.	0.01	0.26	0.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baltimore, Md	28	.....	.....	0.71	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Bentonville, Ark	8	.....	.....	0.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.16	.....	.....	.....
Binghamton, N. Y	11–12	.....	.....	0.88	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Birmingham, Ala	17	.....	.....	1.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.37	.....	.....	.....
Bismarck, N. Dak	14–15	.....	.....	0.50†	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Block Island, R. I	28	.....	.....	0.86	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.51	.....	.....	.....
Boise, Idaho	17	.....	.....	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Boston, Mass	11–12	.....	.....	1.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Buffalo, N. Y	11–12	.....	.....	1.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Burlington, Vt	17–18	.....	.....	0.93	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Cairo, Ill	26–27	.....	.....	1.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Canton, N. Y	27–28	.....	.....	0.89	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Charles City, Iowa	25–26	.....	.....	0.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Charleston, S. C	17	.....	.....	1.07	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.66	.....	.....	.....
Charlotte, N. C	28	.....	.....	0.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.54	.....	.....	.....
Chattanooga, Tenn	17	5:55 a. m.	3:28 p. m.	1.56	7:33 a. m.	7:58 a. m.	0.09	0.06	0.24	0.38	0.46	0.51	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cheyenne, Wyo	11	.....	.....	0.14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Chicago, Ill	26	.....	.....	0.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Cincinnati, Ohio	27	.....	.....	1.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.23	.....	.....	.....
Cleveland, Ohio	27	.....	.....	0.86	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Columbia, Mo	26	.....	.....	0.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Columbia, S. C	23–24	8:38 p. m.	6:00 p. m.	4.23	5:35 a. m.	6:37 a. m.	1.87	0.08	0.18	0.26	0.38	0.48	0.55	0.69	0.75	0.78	0.93	1.21	1.36	.....	.....
Columbus, Ohio	27–28	.....	.....	1.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Concord, N. H	17–18	.....	.....	1.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Concordia, Kans	20	.....	.....	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Corpus Christi, Tex	6	.....	.....	0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....	.....	.....
Davenport, Iowa	26	.....	.....	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Del Rio, Tex	1	.....	.....	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.01	.....	.....	.....
Denver, Colo	1–2	.....	.....	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Des Moines, Iowa	20	.....	.....	0.11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Detroit, Mich	26–27	.....	.....	0.58†	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Devils Lake, N. Dak	15	.....	.....	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Dodge City, Kans	12	.....	.....	0.18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Dubuque, Iowa	25–26	.....	.....	0.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Duluth, Minn	15	.....	.....	0.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Durango, Colo	2–3	.....	.....	0.39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Eastport, Me	17–18	.....	.....	0.73†	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.29	.....	.....	.....
Elkins, W. Va	21–22	.....	.....	0.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
El Paso, Tex	6	.....	.....	0.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.02	.....	.....	.....
Erie, Pa	27–28	.....	.....	1.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Escanaba, Mich	25–26	.....	.....	0.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, etc.*—Continued.

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated. 5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Eureka, Cal	24			1.37														0.32			
Evansville, Ind	16–17			1.10														*			
Flagstaff, Ariz	1–2			0.64														*			
Fort Smith, Ark	26			0.82														*			
Fort Worth, Tex	1			0.59														0.29			
Fresno, Cal	1			0.06														0.05			
Galveston, Tex	27	12:40 a. m.	10:00 a. m.	3.74	12:46 a. m. 2:04 a. m. 2:54 a. m.	1:36 a. m. 2:54 a. m. 3:44 a. m.	0.01 0.88 1.98	0.15 0.21 0.15	0.28 0.26 0.26	0.31 0.29 0.34	0.37 0.30 0.45	0.48 0.37 0.56	0.60 0.49 0.62	0.63 0.56 0.66	0.71 0.84 0.67	0.79 0.93 0.69	0.81 1.10 0.71				
Grand Haven, Mich	26			0.58														*			
Grand Junction, Colo	19			0.10														*			
Grand Rapids, Mich	26			0.58														*			
Green Bay, Wis	25–26			0.37														*			
Hannibal, Mo	25–26			0.40														*			
Harrisburg, Pa	11–12			0.84														*			
Hartford, Conn	11–12			1.11														*			
Hatteras, N. C	17			0.34														0.24			
Havre, Mont	26–27			0.25														*			
Helena, Mont	14			0.68														*			
Houghton, Mich	15–16			0.45														*			
Huron, S. Dak	15			0.15														*			
Independence, Cal	14, 22			T.														*			
Indianapolis, Ind	16			1.58														*			
Iola, Kans	2–3			0.28														*			
Jacksonville, Fla	28			0.34														0.32			
Jupiter, Fla	8	6:15 a. m.	10:35 a. m.	0.76	6:15 a. m.	6:34 a. m.	0.00	0.12	0.29	0.56	0.72										
Kalispell, Mont	13–14			0.60														*			
Kansas City, Mo	26			0.37														*			
Keokuk, Iowa	25–26			0.58														*			
Key West, Fla	12			0.82														*			
Knoxville, Tenn	17			1.13														0.37			
La Crosse, Wis	25–26			0.24														*			
Lander, Wyo	1			0.27														*			
La Salle, Ill	26			0.67														*			
Lewiston, Idaho	13			0.27														0.11			
Lexington, Ky	16–17			1.55														*			
Lincoln, Nebr	20			0.18														*			
Little Rock, Ark	26			3.07														0.70			
Los Angeles, Cal	19			0.04														0.03			
Louisville, Ky	26–27			2.62														*			
Lynchburg, Va	17	3:50 p. m.	9:20 p. m.	1.34	7:10 p. m.	7:25 p. m.	0.77	0.16	0.31	0.39											
Macon, Ga	17	1:30 p. m.	6:30 p. m.	1.00	3:18 p. m.	3:38 p. m.	0.09	0.06	0.27	0.49	0.54										
Madison, Wis	25–26			0.28														*			
Marquette, Mich	15–16			1.25														*			
Memphis, Tenn	27			1.67														0.50			
Meridian, Miss	21			0.69														0.54			
Milwaukee, Wis	26			0.27														*			
Minneapolis, Minn	14–15			0.46														*			
Mobile, Ala	17	7:15 a. m.	12:50 p. m.	0.97	11:33 a. m.	11:55 a. m.	0.31	0.13	0.28	0.38	0.52										
Modena, Utah	1–2			0.13														*			
Montgomery, Ala	17	9:50 a. m.	3:30 p. m.	1.42	11:16 a. m.	12:15 p. m.	0.09	0.05	0.11	0.19	0.25	0.38	0.58	0.60	0.65	0.69	0.71	0.95			
Moorhead, Minn	15			0.34														*			
Mount Tamalpais, Cal	18			0.81														0.27			
Mount Weather, Va	17			0.83														*			
Nantucket, Mass	12			1.63														0.43			
Nashville, Tenn	16–17			2.24														*			
New Haven, Conn	28			1.21														*			
New Orleans, La	27	11:00 a. m.	6:05 p. m.	1.13	11:38 a. m.	12:22 p. m.	0.01	0.05	0.08	0.23	0.44	0.53	0 62	0.75	0.81	0.86					
New York, N. Y	28			1.57														*			
Norfolk, Va	11			0.83														0.33			
Northfield, Vt	3–4			0.90†														*			
North Head, Wash	24			0.58														0.19			
North Platte, Neb	19			0.02														*			
Oklahoma, Okla	1			0.28														0.19			
Omaha, Neb	20			0.18														*			
Oswego, N. Y	11–12			1.60														*			
Palestine, Tex	26			1.39														0.39			
Parkersburg, W. Va	11–12			1.21														*			
Pensacola, Fla	21	10:00 a. m.	1:00 p. m.	1.28	10:03 a. m.	10:22 a. m.	0.01	0.13	0.37	0.50	0.62										
Do	28–1	8:20 p. m.	8:15 a. m.	1.75	2:17 a. m.	2.42 a. m.	0.60	0.14	0.33	0.45	0.58	0.75	0.77								
Peoria, Ill	26			0.66														*			
Philadelphia, Pa	28			1.08†														*			
Phoenix, Ariz	20			T.														T.			
Pierre, S. Dak	14–15			0.08														*			
Pittsburg, Pa	11–12			1.08														*			
Pocatello, Idaho	1			0.20														*			
Point Reyes Light, Cal	6			0.39														0.15			
Port Huron, Mich	26–27			0.45														*			
Portland, Me	3–4			1.52														*			
Portland, Oreg	12–13			1.24†														*			
Providence, R. I	11–12			1.22														*			
Pueblo, Cal	15–16			0.30														*			
Raleigh, N. C	17			0.39														0.27			
Rapid City, S. Dak	14			0.07														*			
Red Bluff, Cal	24			0.26														0.17			
Reno, Nev	7			0.10														*			
Richmond, Va	28			1.24														0.57			
Rochester, N. Y	12			0.87														*			
Roseburg, Oreg	18			0.51														0.18			
Roswell, N. Mex	2			0.11														*			
Sacramento, Cal	22			0.20														0.08			
St. Louis, Mo	15–16			1.14														*			
St. Paul, Minn	14–15			0.36														*			
Salt Lake City, Utah	19			0.21														*			
San Antonio, Tex	6			0.32														0.12			
St. Paul, Minn	14–15			0.36														*			
Sandusky, Ohio	16–17			0.90														*			
San Francisco, Cal	6–7			0.64														0.28			
San Jose, Cal	6			0.30														0.07			
San Luis Obispo	19			0.26														0.10			
Santa Fe, N. Mex	20			0.04														*			
Sault Sainte Marie, Mich	25–26			0.51														*			
Savannah, Ga	24			1.39														0.65			

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, etc.*—Continued.

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated. 5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Scranton, Pa.	17–18			1.13†														*			
Seattle, Wash.	27			1.25														0.31			
Sheridan, Wyo.	1			0.05														*			
Shreveport, La.	20	2:25 p. m.	10:00 p. m.	0.79	9:19 p. m.	9:38 p. m.	0.17	0.07	0.18	0.42	0.58										
Do.	26–27	1:30 p. m.	12:40 a. m.	1.65	10:42 p. m.	11:12 p. m.	0.84	0.08	0.18	0.25	0.31	0.42	0.54								
Sioux City, Iowa.	22			0.15														*			
Southeast Farallon, Cal.	6			0.29														0.18			
Spokane, Wash.	22–23			0.34														*			
Springfield, Ill.	26			0.51														*			
Springfield, Mo.	16–17			1.25														*			
Syracuse, N. Y.	11–12			1.20														*			
Tacoma, Wash.	24			1.22														0.30			
Tampa, Fla.	11	1:10 p. m.	6:15 p. m.	1.25	1:19 p. m.	1:30 p. m.	0.02	0.33	0.42	0.45											
Tatoosh Island, Wash.	28			1.03														0.21			
Taylor, Tex.	1			1.67														0.55			
Thomasville, Ga.	17	5:45 p. m.	9:30 p. m.	1.18	6:02 p. m.	6:24 p. m.	0.04	0.22	0.43	0.58	0.73	0.76									
Toledo, Ohio.	26–27			0.72														*			
Tonopah, Nev.	1			0.06														*			
Topeka, Kans.	2			0.51														*			
Valentine, Neb.	21			0.22														*			
Vicksburg, Miss.	16–17	7:40 p. m.	7:25 a. m.	1.89	11:03 p. m.	11:38 p. m.	0.20	0.06	0.16	0.30	0.42	0.50	0.54	0.60							
Walla Walla, Wash.	13–14			0.75														*			
Washington, D. C.	28			0.83														0.34			
Wichita, Kans.	2			0.39														*			
Williston, N. Dak.	24			0.26														*			
Wilmington, N. C.	11	6:50 a. m.	6:30 p. m.	2.58	3:45 p. m.	4:35 p. m.	0.86	0.10	0.27	0.34	0.45	0.53	0.57	0.62	0.68	0.77	0.83				
Winnemucca, Nev.	1			0.34														*			
Wytheville, Va.	11–12			0.77														*			
Yankton, S. Dak.	22			0.20														*			
Yellowstone Park, Wyo.	13–14			0.37														*			

* Self-register not working. † Estimated. ‡ No precipitation recorded during month. ‖ Includes part of March 1, 1910.

TABLE III.—*Data furnished by the Canadian Meteorological Service, February, 1910.*

Stations.	Pressure. Actual, reduced to mean of 24 hours.	Pressure. Sea level, reduced to mean of 24 hours.	Pressure. Departure from normal.	Temperature. Mean.	Temperature. Departure from normal.	Temperature. Mean maximum.	Temperature. Mean minimum.	Precipitation. Total.	Precipitation. Departure from normal.	Precipitation. Total snowfall.
	Ins.	*Ins.*	*Ins.*	°	°	°	°	*Ins.*	*Ins.*	*Ins.*
St. Johns, N. F.	29.70	29.84	+.01	26.3	+ 4.3	33.5	19.2	7.61	+2.70	49.7
Sydney, C. B. I.	29.92	29.96	+.04	24.3	+ 5.0	32.5	16.2	5.70	+1.61	31.0
Halifax, N. S.	29.91	30.02	+.07	25.6	+ 3.2	34.0	17.3	6.96	+1.80	26.8
Grand Manan, N. B.	29.97	30.02	+.04	25.9	+ 3.5	33.8	18.0	5.02	+1.05	28.0
Yarmouth, N. S.	29.95	30.02	+.03	28.0	+ 2.2	34.6	21.5	3.76	−0.98	23.7
Charlottetown, P. E. I.	29.95	29.99	+.04	21.2	+ 3.6	28.9	13.6	3.61	+0.55	20.7
Chatham, N. B.	30.01	30.04	+.08	15.1	+ 2.6	25.1	5.1	2.82	−0.34	21.9
Father Point, Que.	29.98	30.01	+.03	11.1	− 0.4	19.8	2.4	2.51	+0.30	20.7
Quebec, Que.	29.70	30.04	+.05	11.2	− 0.6	18.7	3.7	3.86	+0.59	34.1
Montreal, Que.	29.85	30.08	+.06	14.8	+ 0.3	22.5	7.1	4.92	+1.85	37.8
Stonecliffe, Ont.										
Ottawa, Ont.	29.82	30.17	+.15	13.2	+ 1.5	22.5	3.8	2.33	−0.36	21.3
Kingston, Ont.	29.79	30.13	+.09	17.6	− 0.2	26.7	8.5	2.71	+0.17	17.3
Toronto, Ont.	29.71	30.11	+.07	21.0	− 0.5	29.2	12.8	3.21	+0.60	24.1
White River, Ont.	28.69	30.09	+.07	−0.5	− 0.7	15.1	−16.1	0.52	−1.00	5.2
Port Stanley, Ont.	29.46	30.13	+.07	20.3	− 2.5	29.0	11.6	3.47	+0.26	21.6
Southampton, Ont.	29.38			19.0	− 0.9	27.7	10.4	4.00	+1.10	20.7

Stations.	Pressure. Actual, reduced to mean of 24 hours.	Pressure. Sea level, reduced to mean of 24 hours.	Pressure. Departure from normal.	Temperature. Mean.	Temperature. Departure from normal.	Temperature. Mean maximum.	Temperature. Mean minimum.	Precipitation. Total.	Precipitation. Departure from normal.	Precipitation. Total snowfall.
	Ins.	*Ins.*	*Ins.*	°	°	°	°	*Ins.*	*Ins.*	*Ins.*
Parry Sound, Ont.	29.37	30.12	+.11	13.8	− 0.5	24.2	3.3	3.55	+0.63	32.0
Port Arthur, Ont.	29.38	30.13	+.08	7.1	+ 0.7	19.1	− 5.0	0.79	−0.11	7.9
Winnipeg, Man.	29.31	30.21	+.11	−1.3	+ 0.3	9.6	−12.2	1.56	+0.58	15.6
Minnedosa, Man.	28.22	30.17	+.08	−1.0	+ 1.7	9.8	−11.9	0.30	−0.31	3.0
Qu' Appelle, Assin.	27.74	30.14	+.06	−0.8	− 0.2	10.3	− 8.7	0.59	−0.14	5.9
Medicine Hat, Alberta.	27.78	30.18	+.13	11.7	+ 0.5	21.8	1.5	0.45	−0.22	4.5
Swift Current, Sask.	27.46	30.20	+.13	5.3	− 2.7	13.9	− 3.3	0.58	−0.16	5.8
Calgary, Alberta.	26.40	30.14	+.15	9.8	− 3.7	19.2	• 0.4	0.88	+0.25	8.8
Banff, Alberta.				8.8	.....	19.8	− 2.2	1.94	+1.02	19.4
Edmonton, Alberta.				7.1	− 1.2	20.4	− 6.2	0.46	−0.21	4.6
Prince Albert, Sask.	28.46	30.13	+.04	−0.1	+ 2.9	10.5	−10.7	0.45	−0.24	4.5
Battleford, Sask.	28.32	30.19	+.10	−1.2	− 1.3	9.0	−11.3	0.01	−0.36	0.1
Kamloops, B. C.	28.77	30.10	+.14	23.2	− 5.1	30.2	16.2	0.87	+0.08	8.5
Victoria, B. C.	29.97	30.07	+.07	36.7	− 2.8	41.7	31.7	4.73	+0.63	8.2
Barkerville, B. C.	25.53	29.99	+.08	12.1	− 6.8	18.8	5.4	2.29	−0.77	22.9
Dawson, Yukon.	28.99	.....	.....	−23.1	.....	−15.0	−31.2	0.22	.....	2.2
Hamilton, Bermuda.	30.09	30.26	+.15	61.6	+ 0.1	66.6	56.6	4.24	−0.20	0.0

Climatological Districts of the United States.

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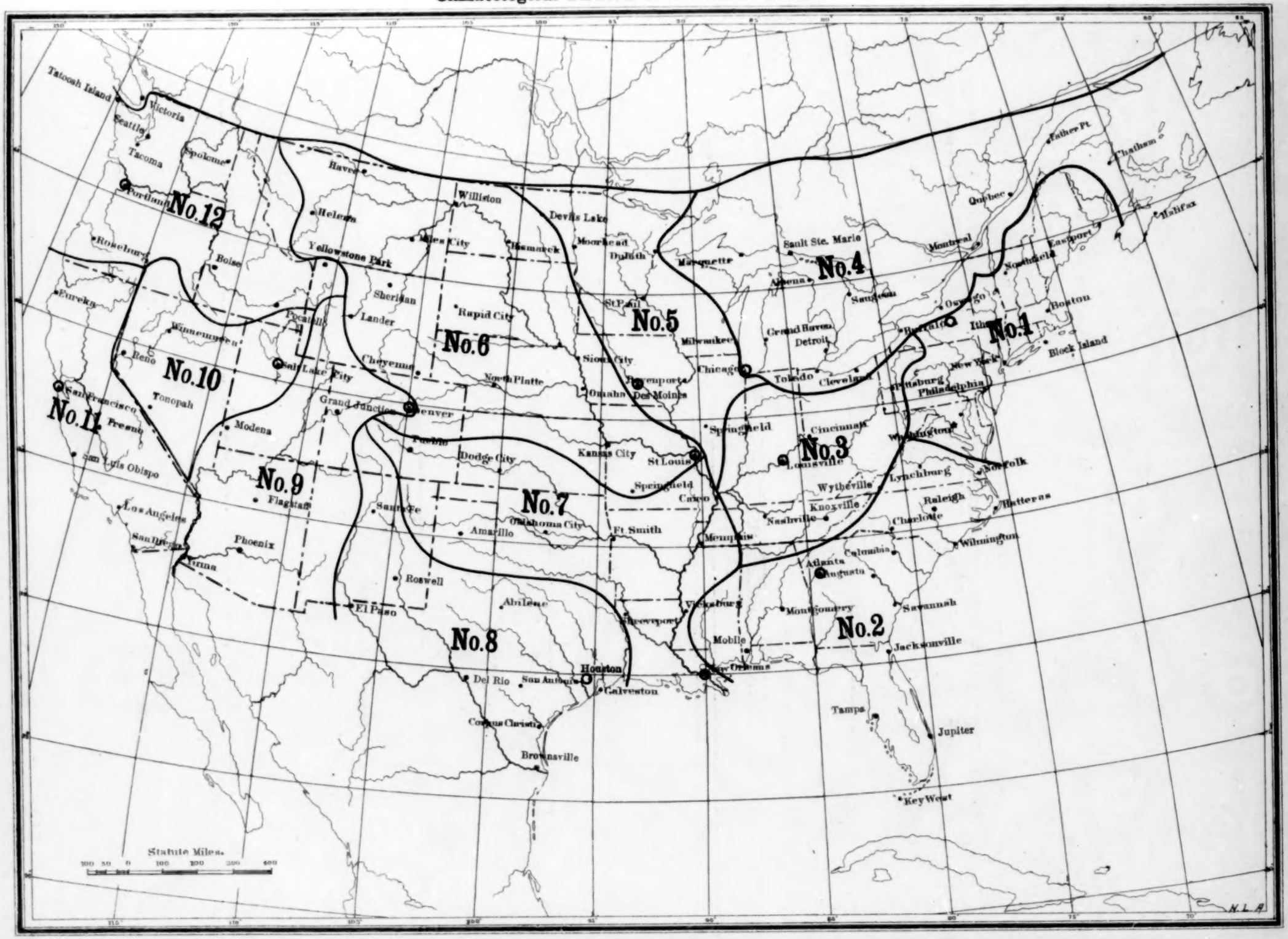
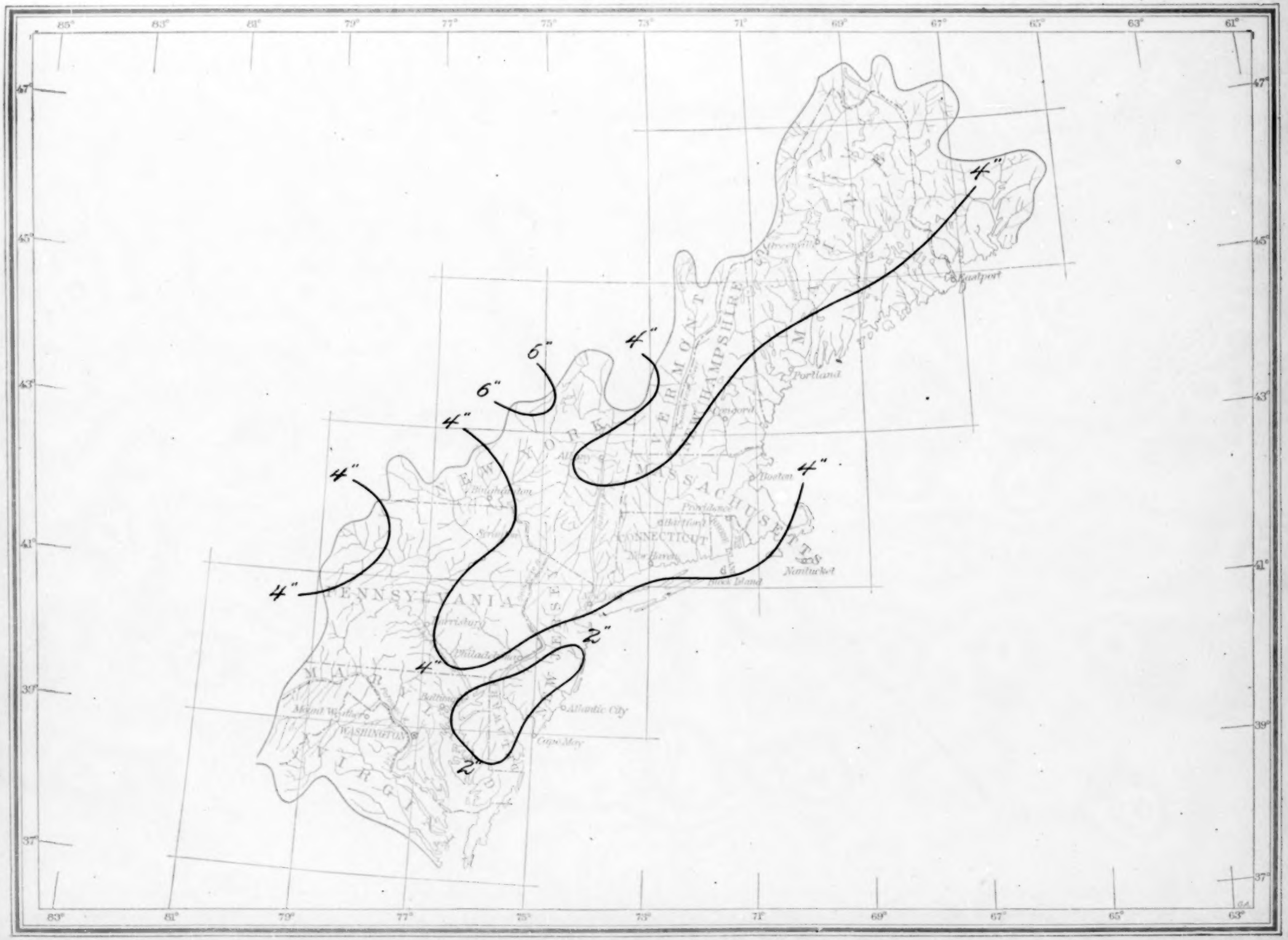
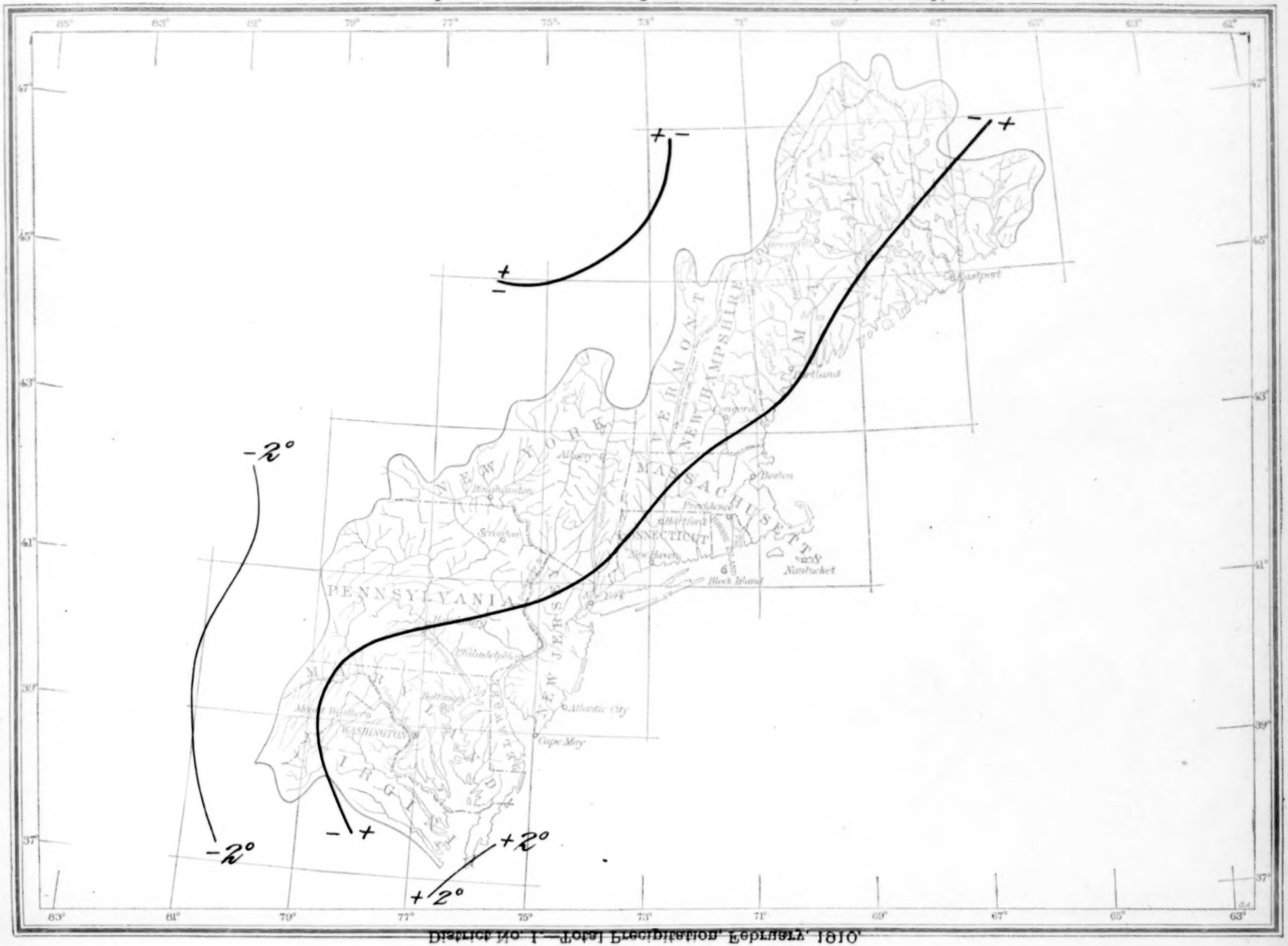


District No. 1.—Total Precipitation, February, 1910.

District No. 1.—Total Precipitation, February, 1910.

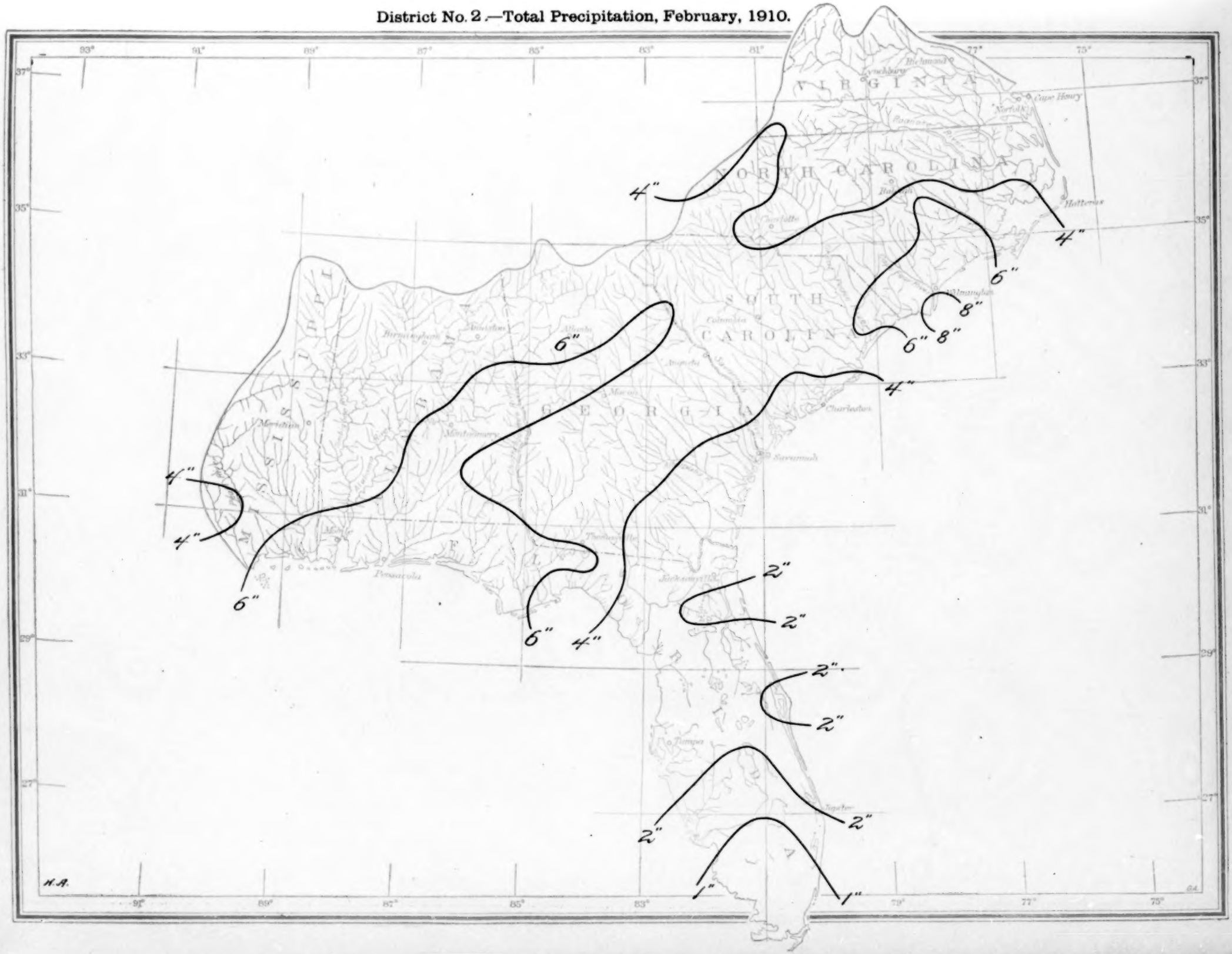


District No. 1.—Departure of the Mean Temperature from the Normal, February, 1910.

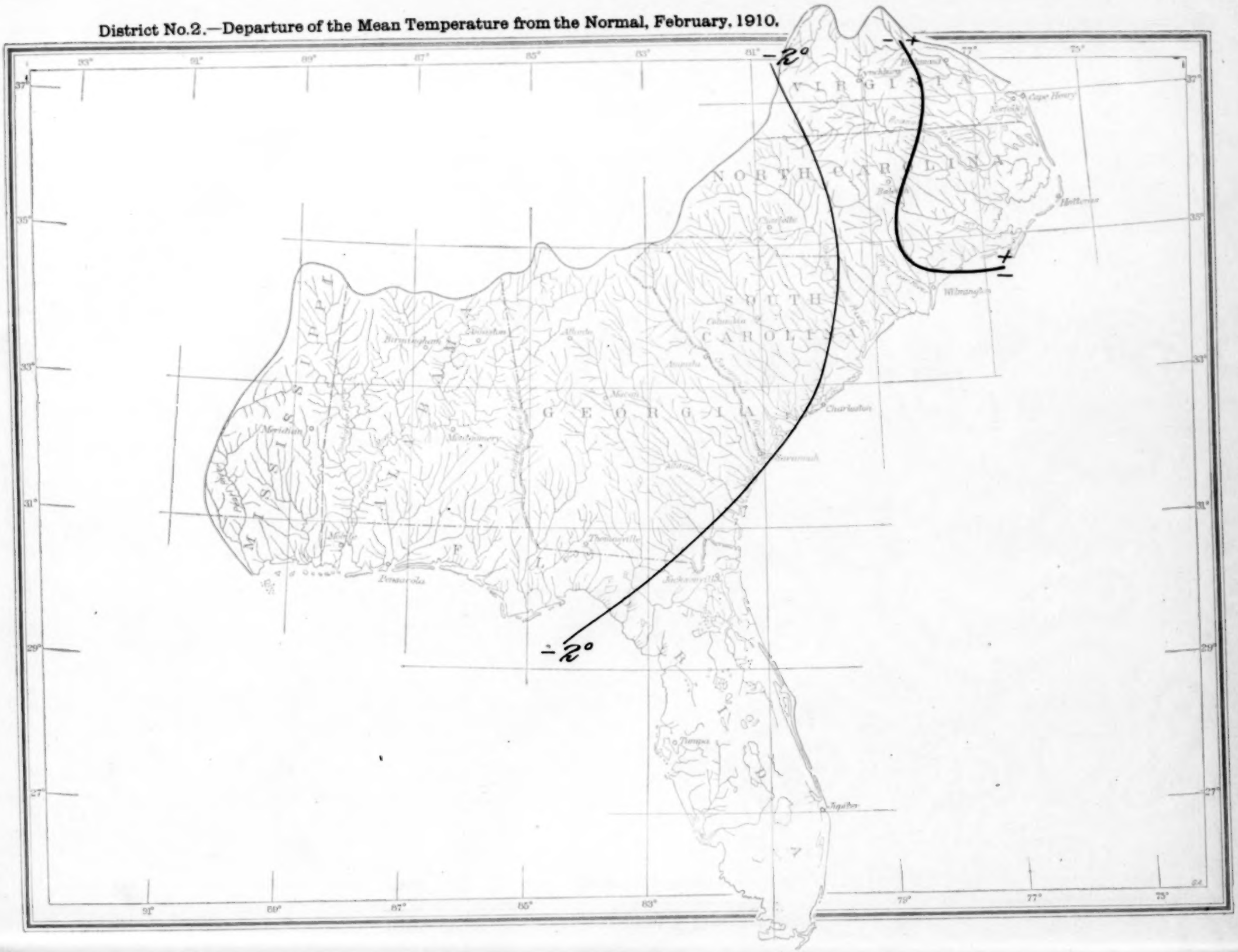


District No. 1.—Total Precipitation, February, 1910.

District No. 2.—Total Precipitation, February, 1910.

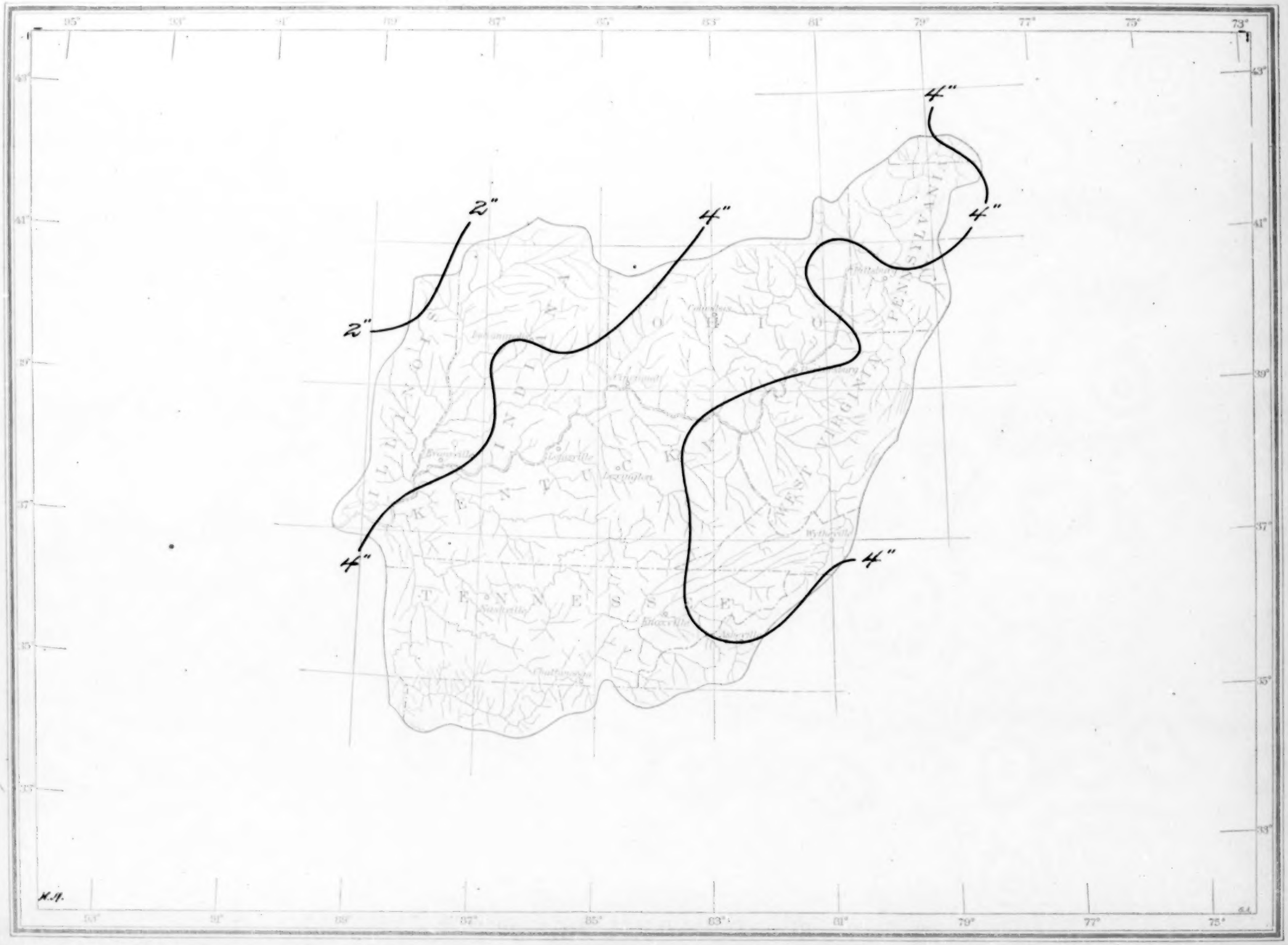


District No. 2.—Departure of the Mean Temperature from the Normal, February, 1910.

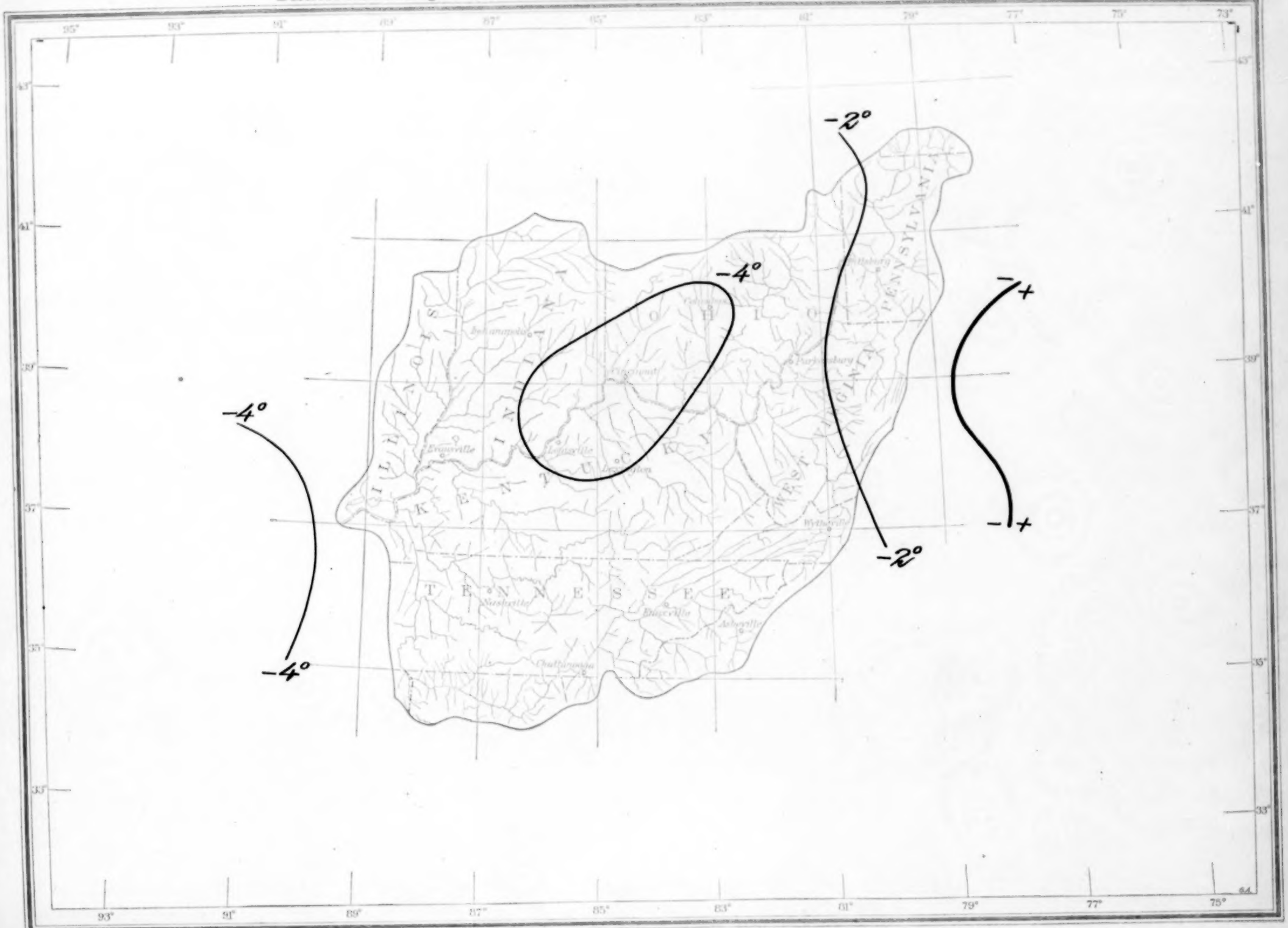


District No. 2.—Total Precipitation, February, 1910.

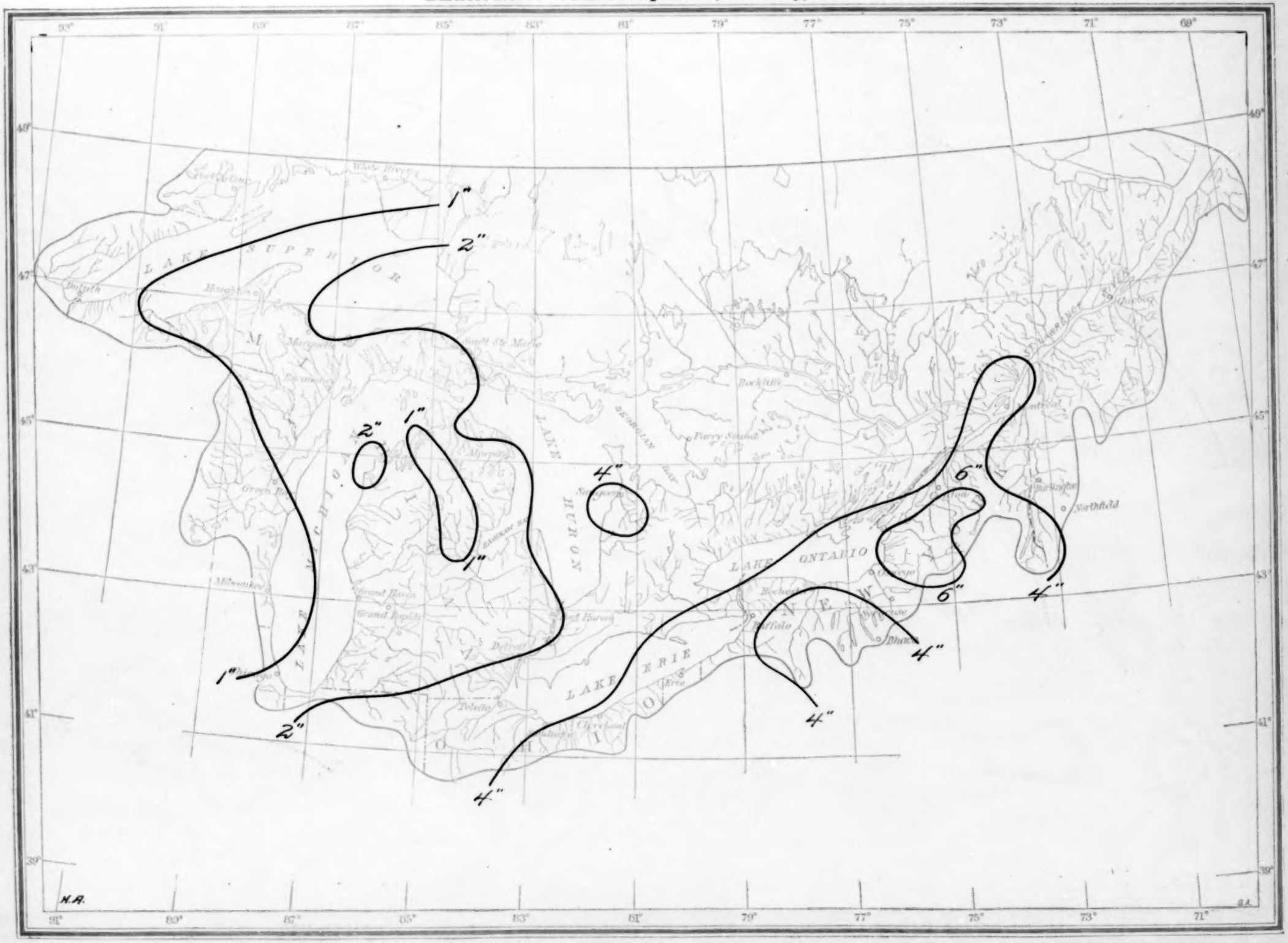
District No. 3.—Total Precipitation, February, 1910.



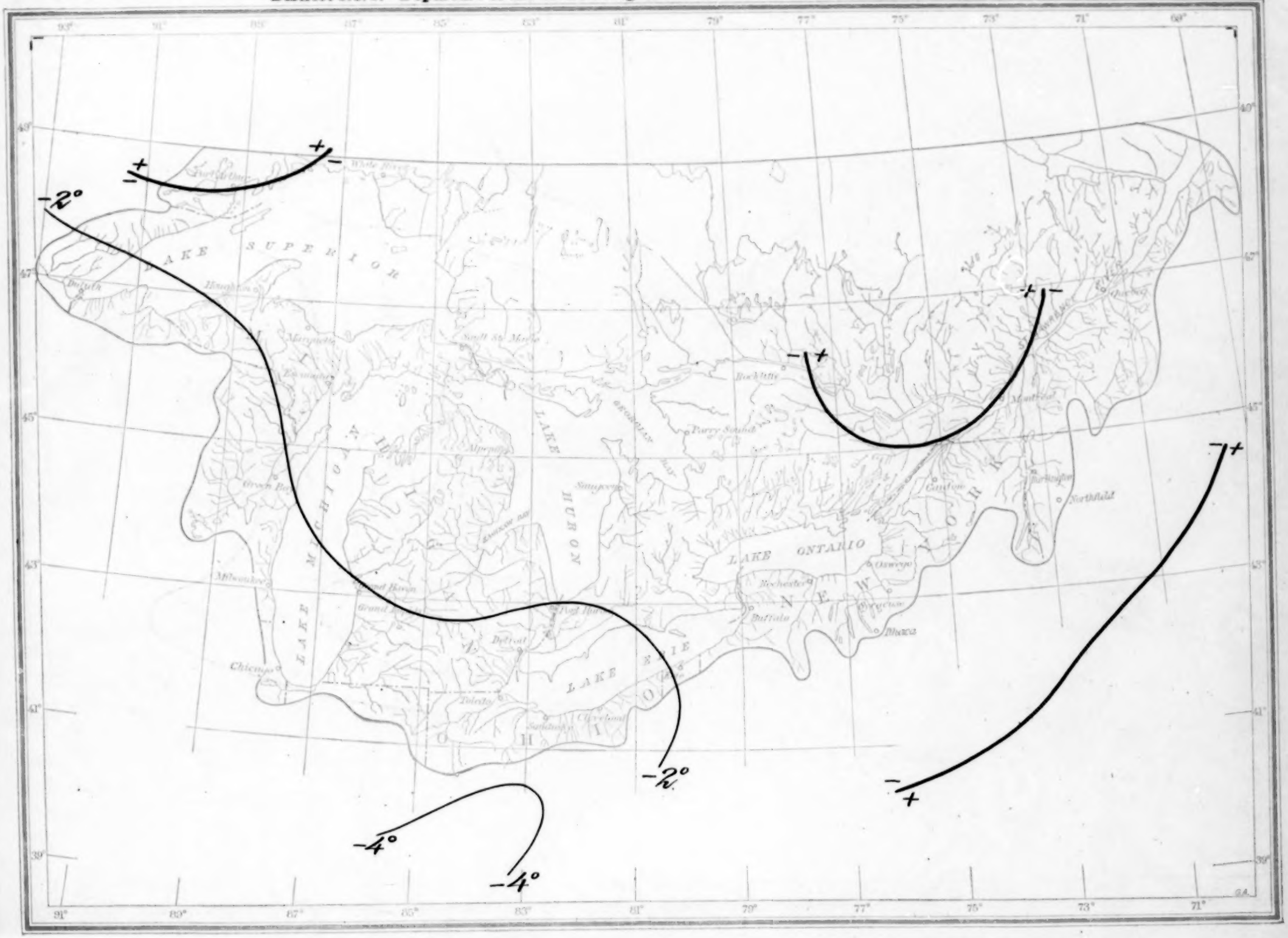
District No. 3.—Departure of the Mean Temperature from the Normal, February, 1910.



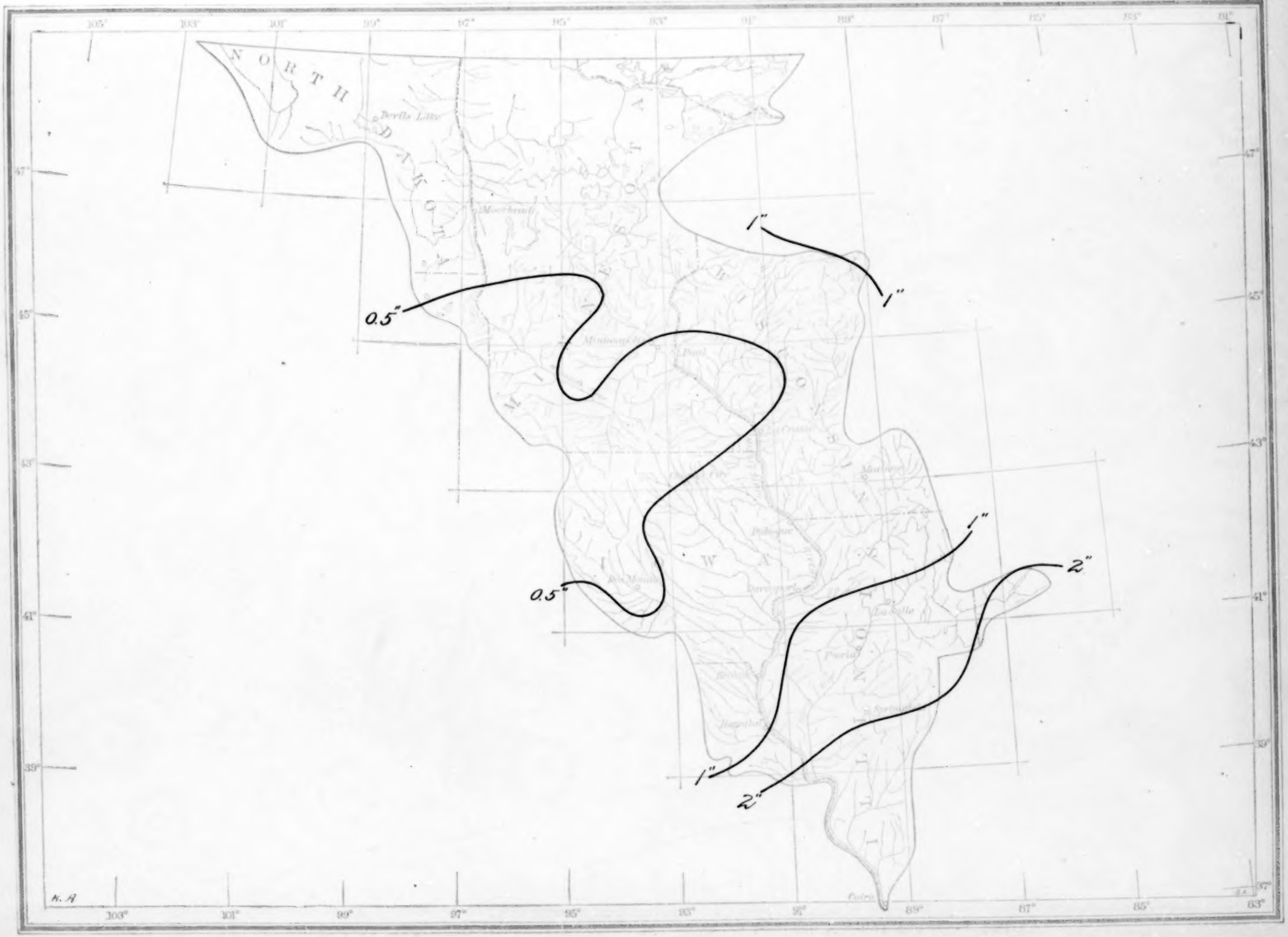
District No.4.—Total Precipitation, February, 1910.



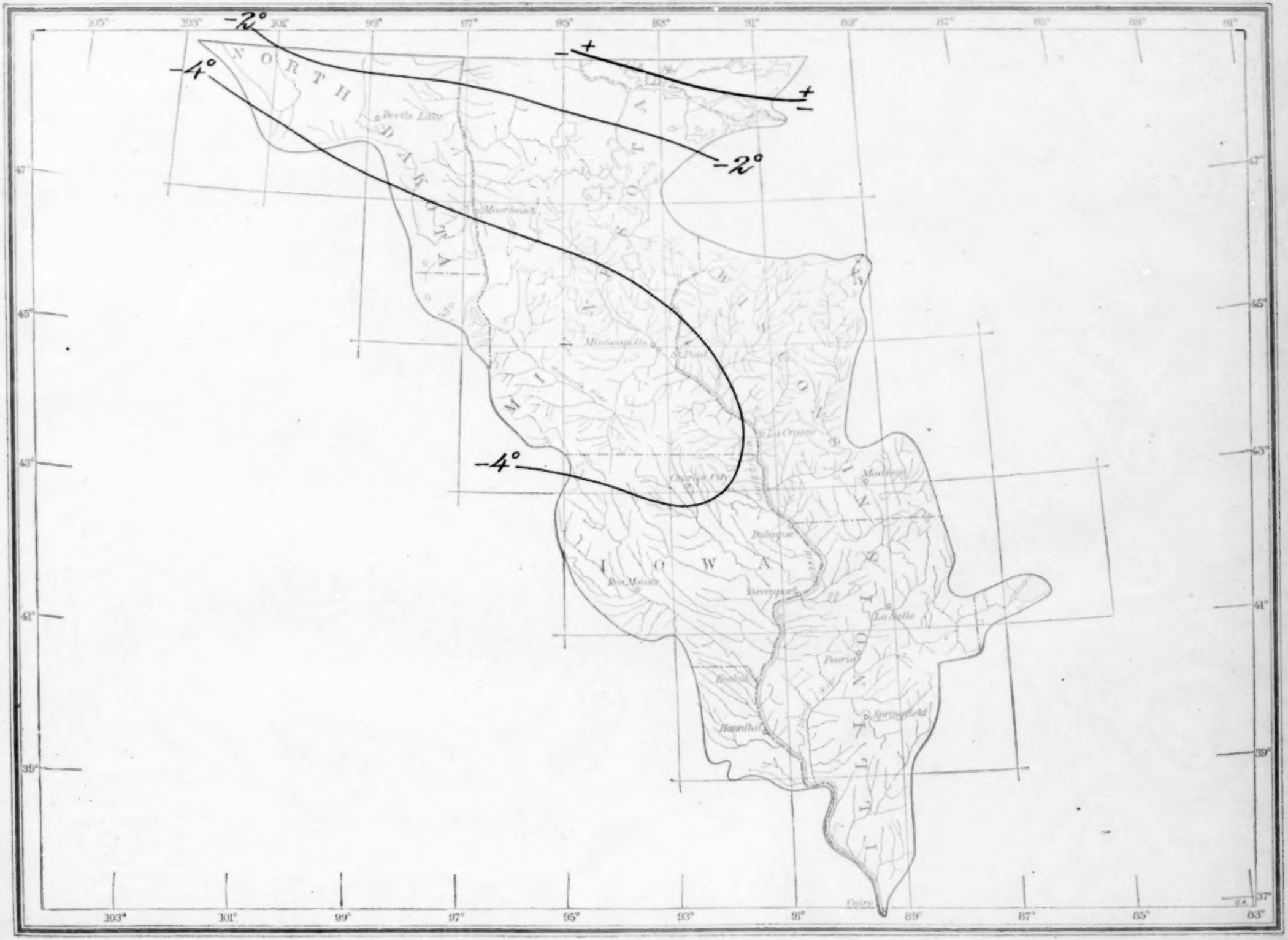
District No.4.—Departure of the Mean Temperature from the Normal, February, 1910.



District No. 5.—Total Precipitation, February, 1910.

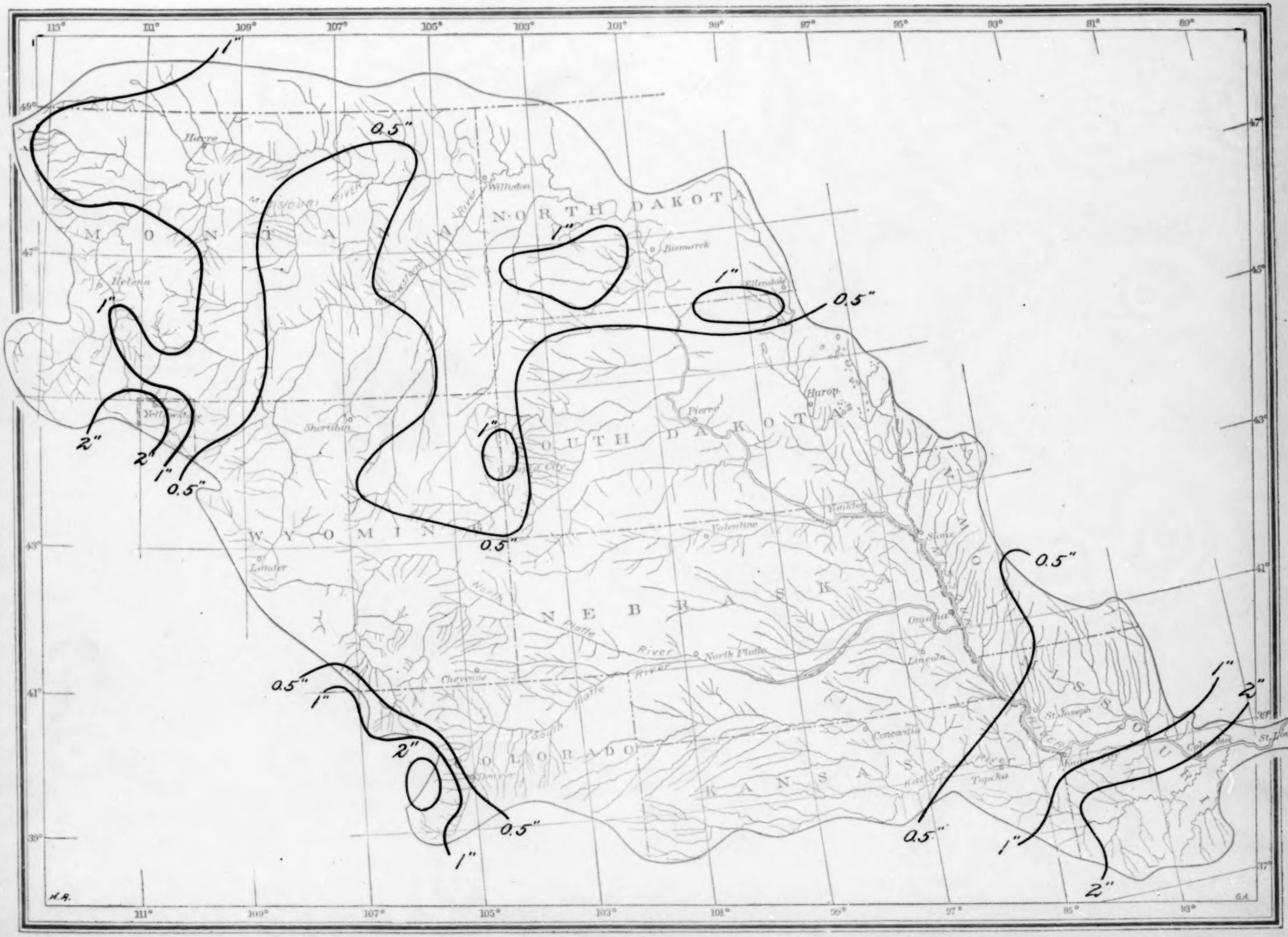


District No.5.—Departure of the Mean Temperature from the Normal, February, 1910.

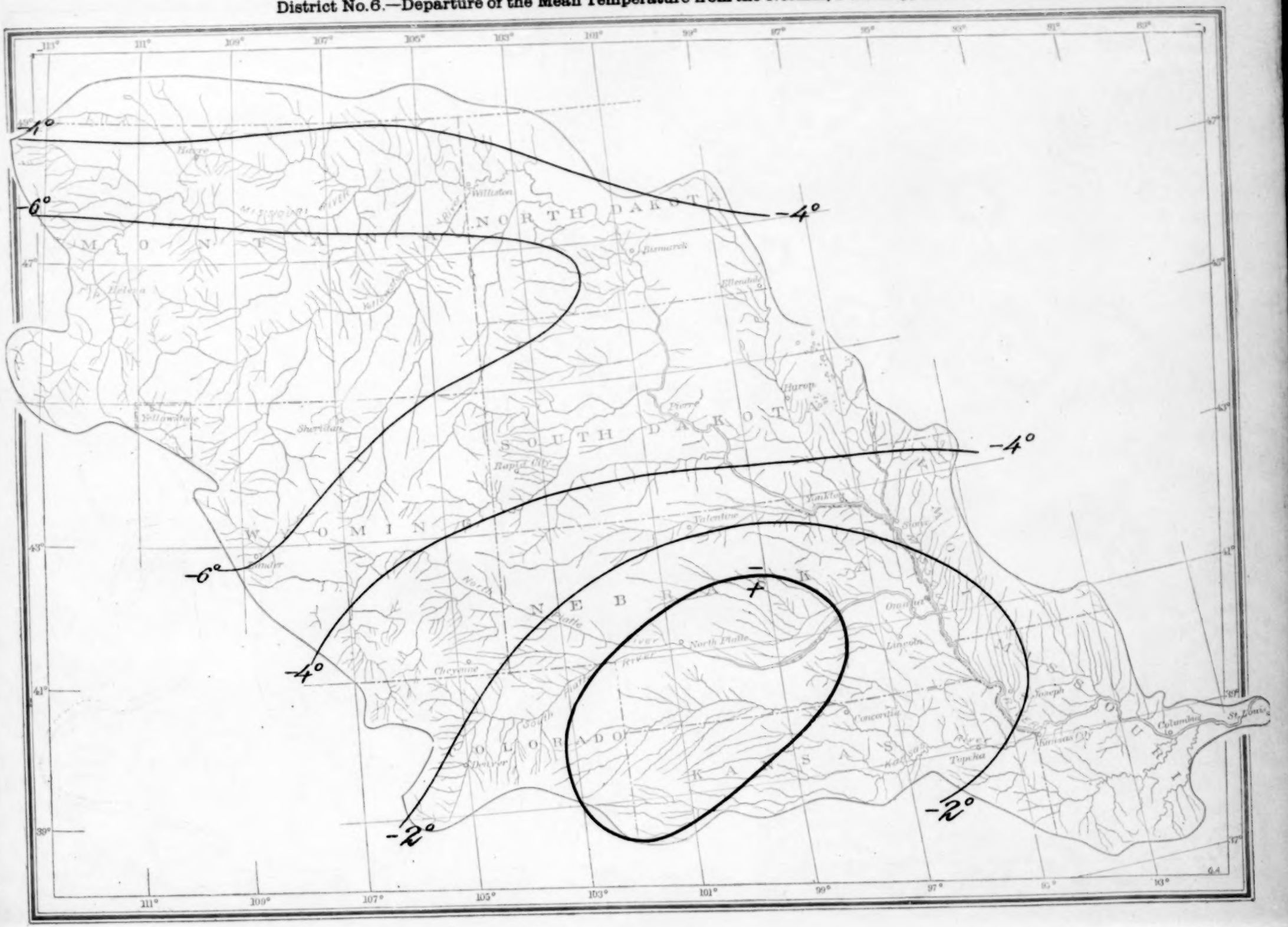


District No.6.—Total Precipitation, February, 1910.

District No. 6.—Total Precipitation, February, 1910.

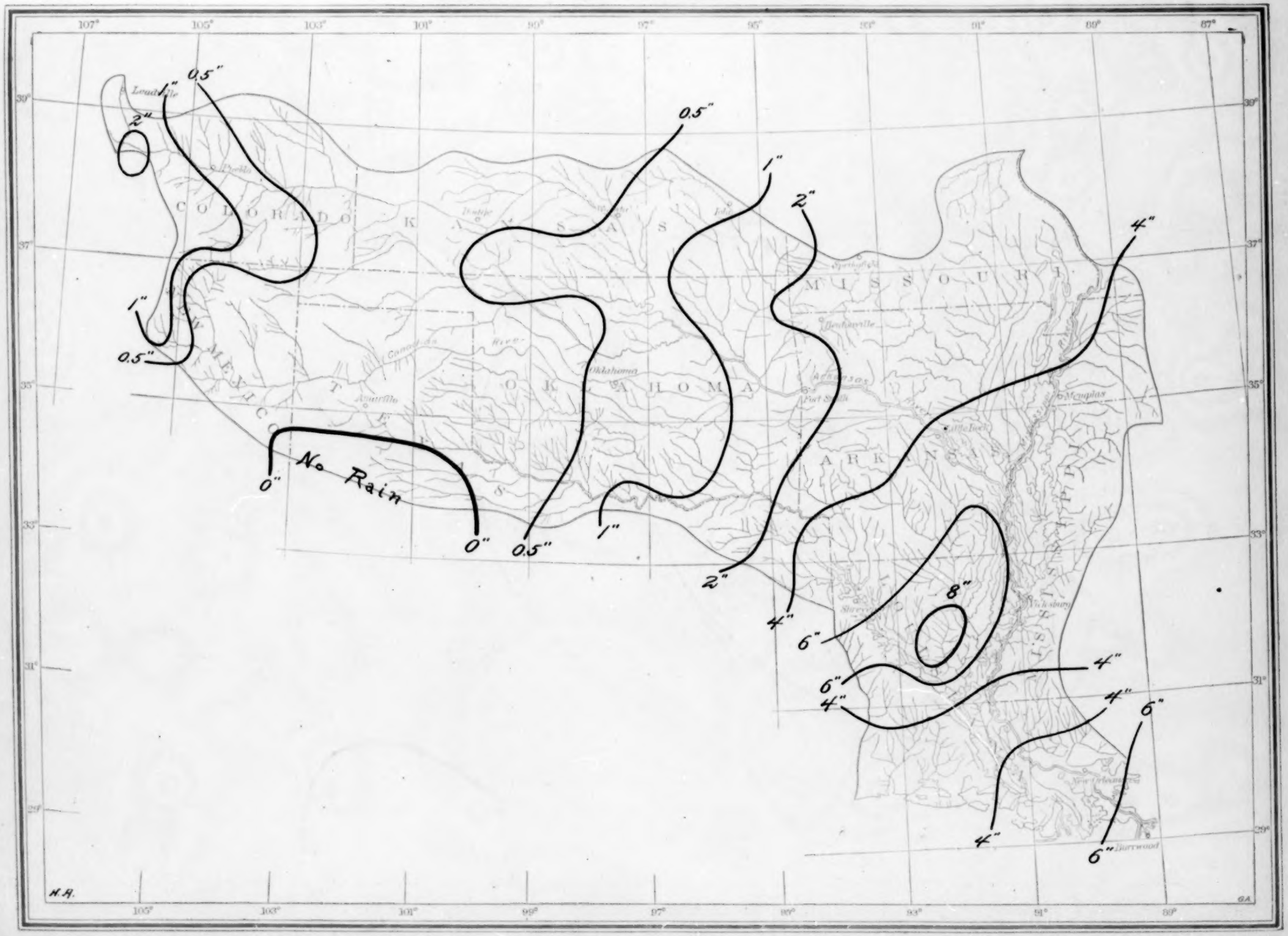


District No. 6.—Departure of the Mean Temperature from the Normal, February, 1910.

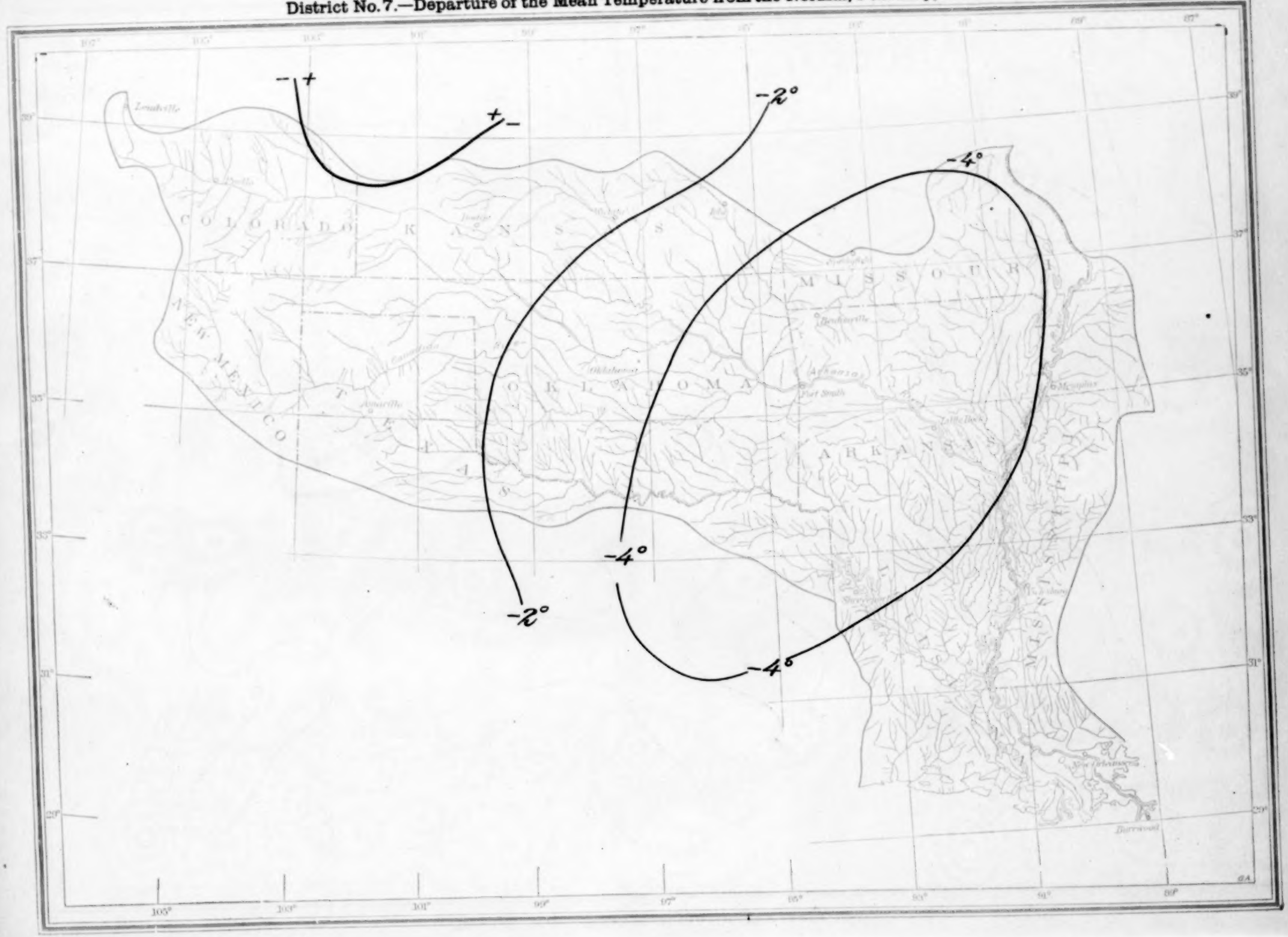


District No. 7.—Total Precipitation, February, 1910.

District No. 7.—Total Precipitation, February, 1910.

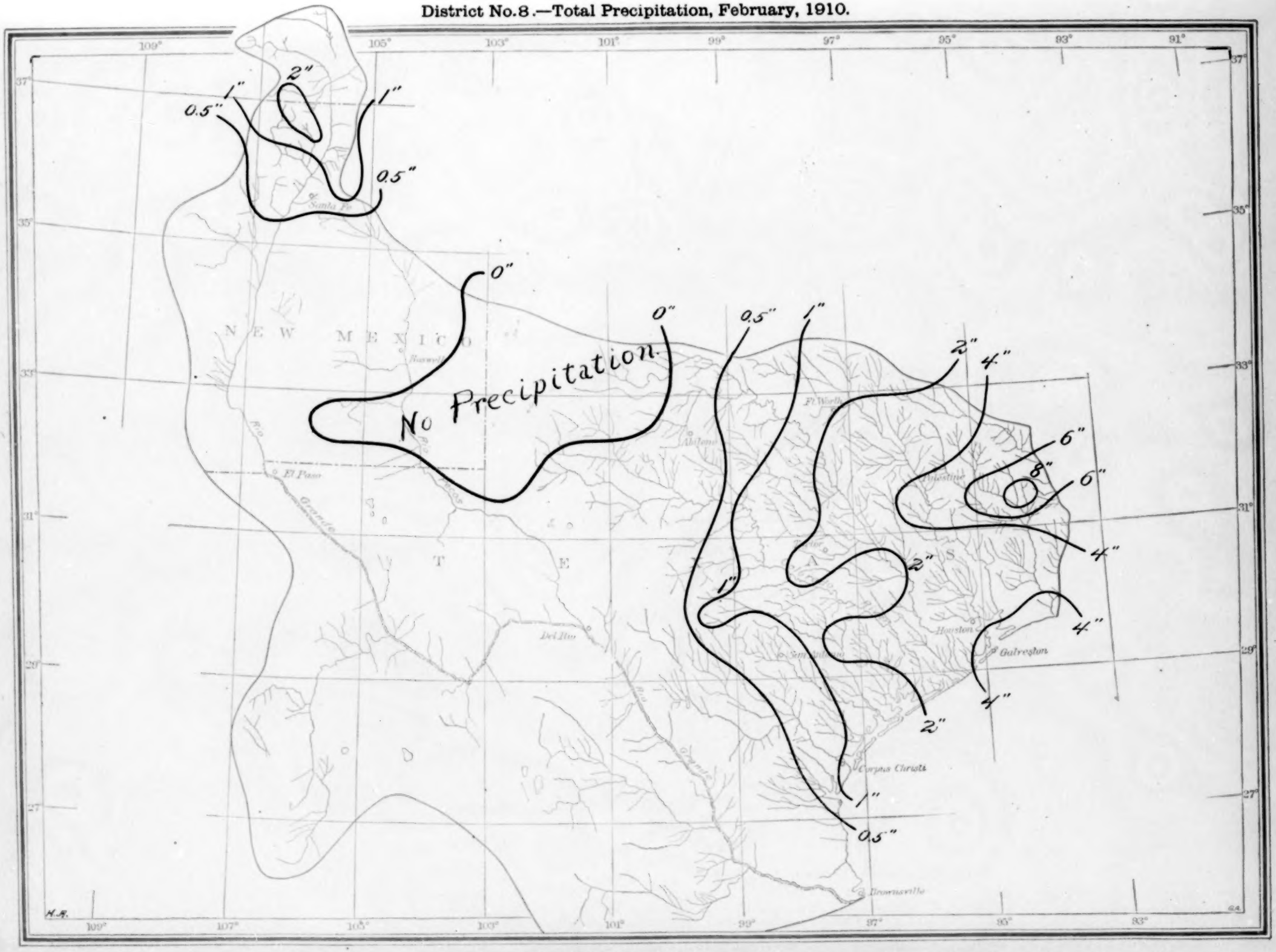


District No. 7.—Departure of the Mean Temperature from the Normal, February, 1910.

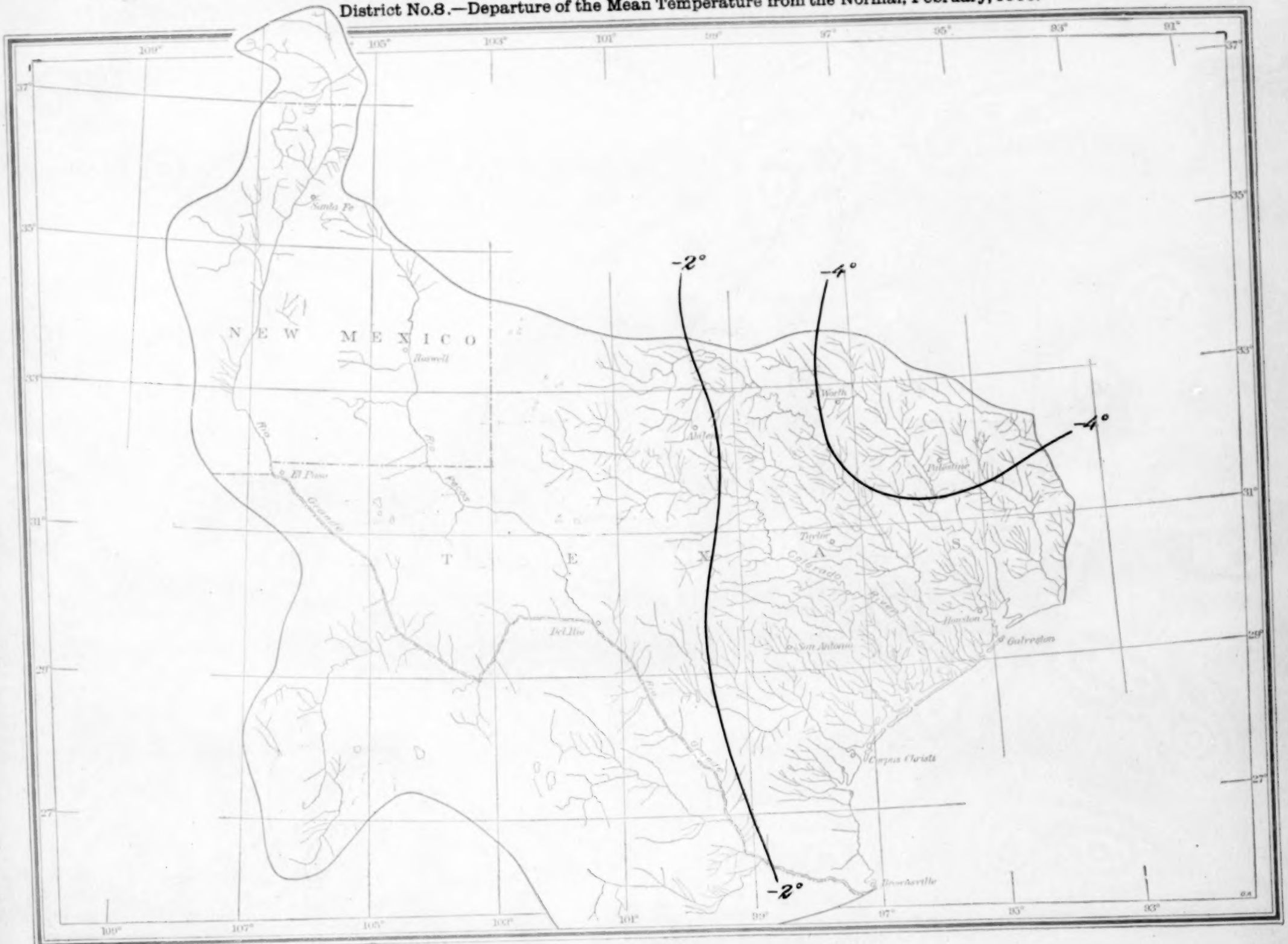


District No. 8.—Total Precipitation, February, 1910.

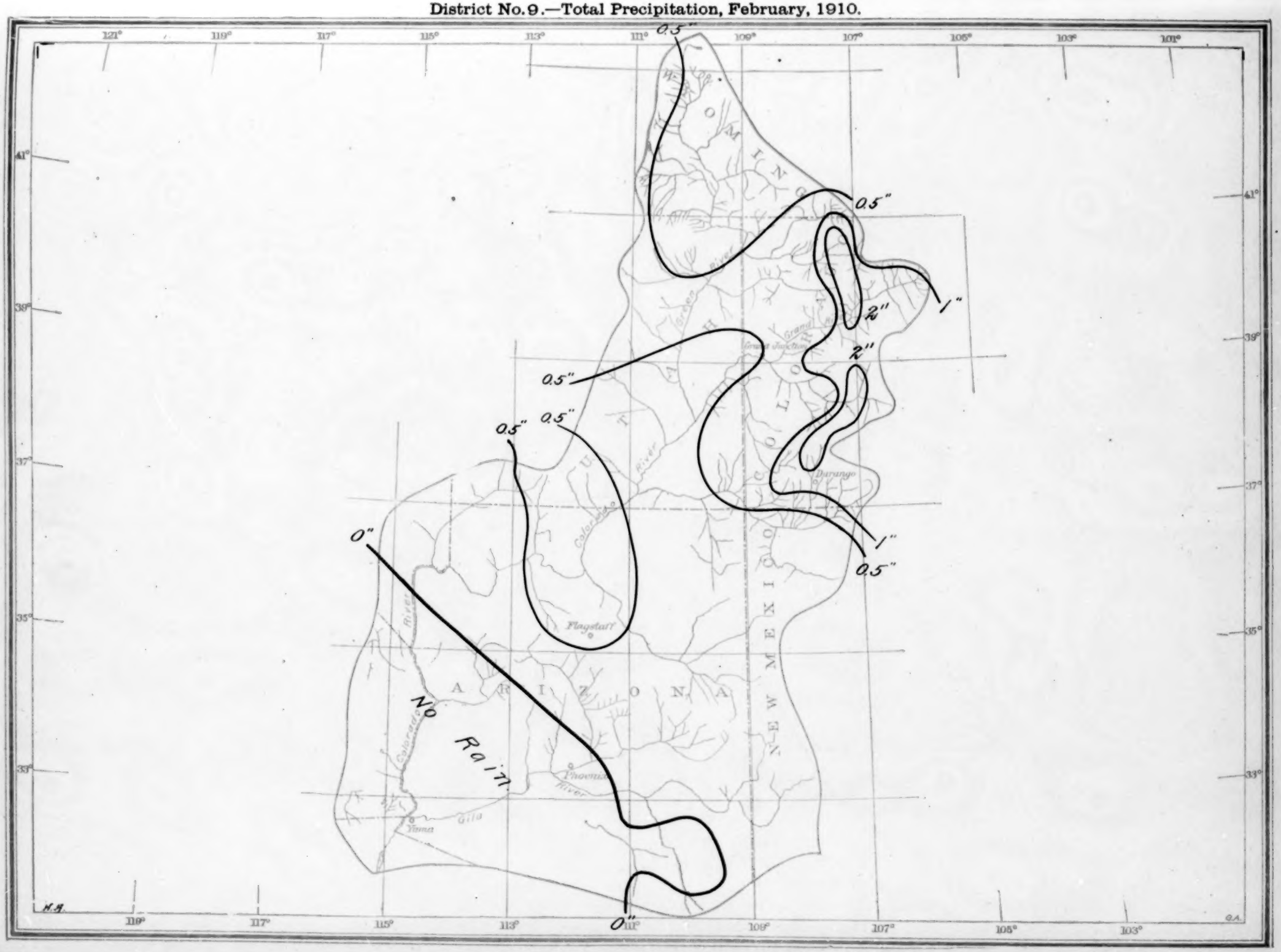
District No. 8.—Total Precipitation, February, 1910.



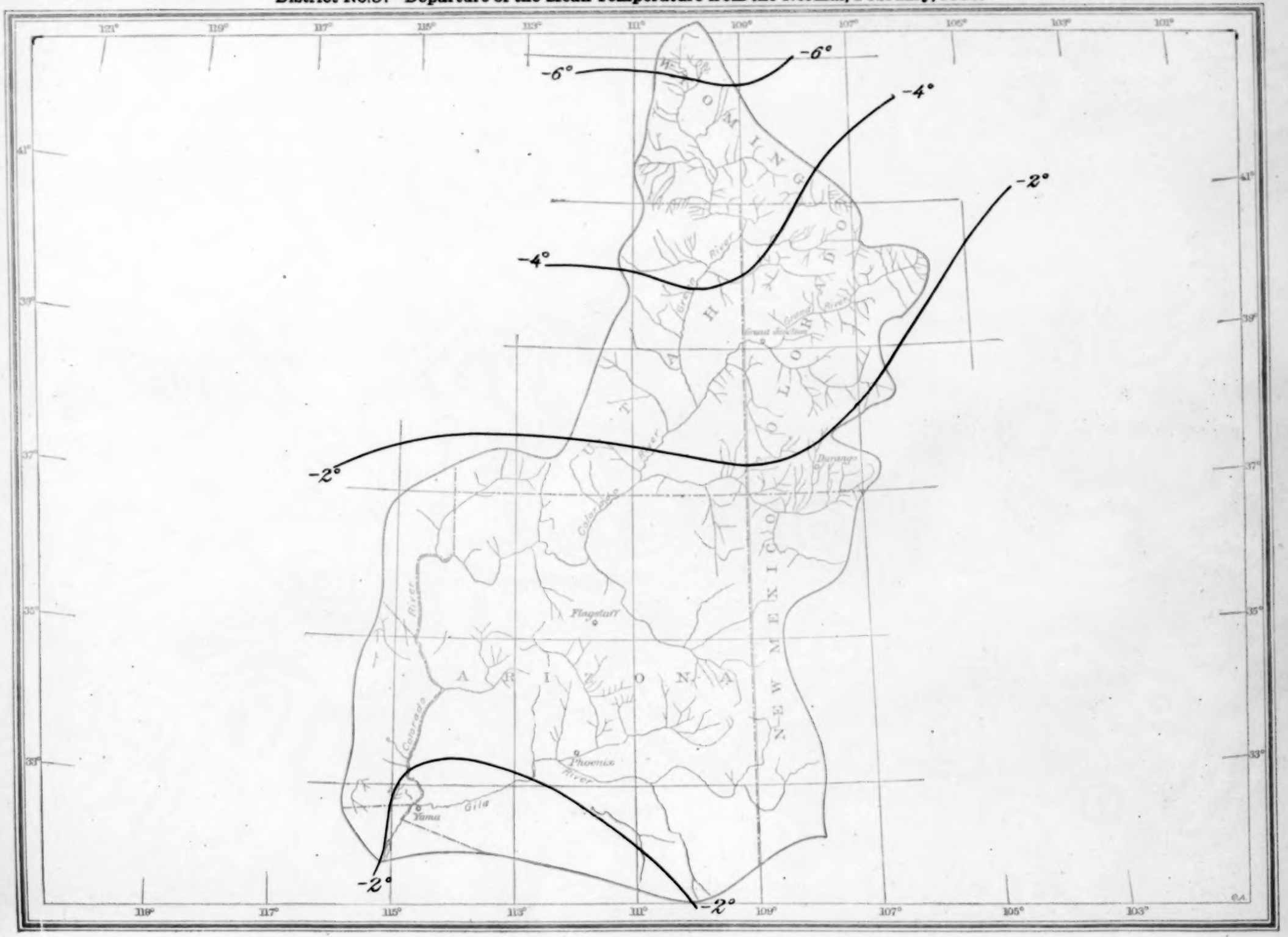
District No.8.—Departure of the Mean Temperature from the Normal, February, 1910.



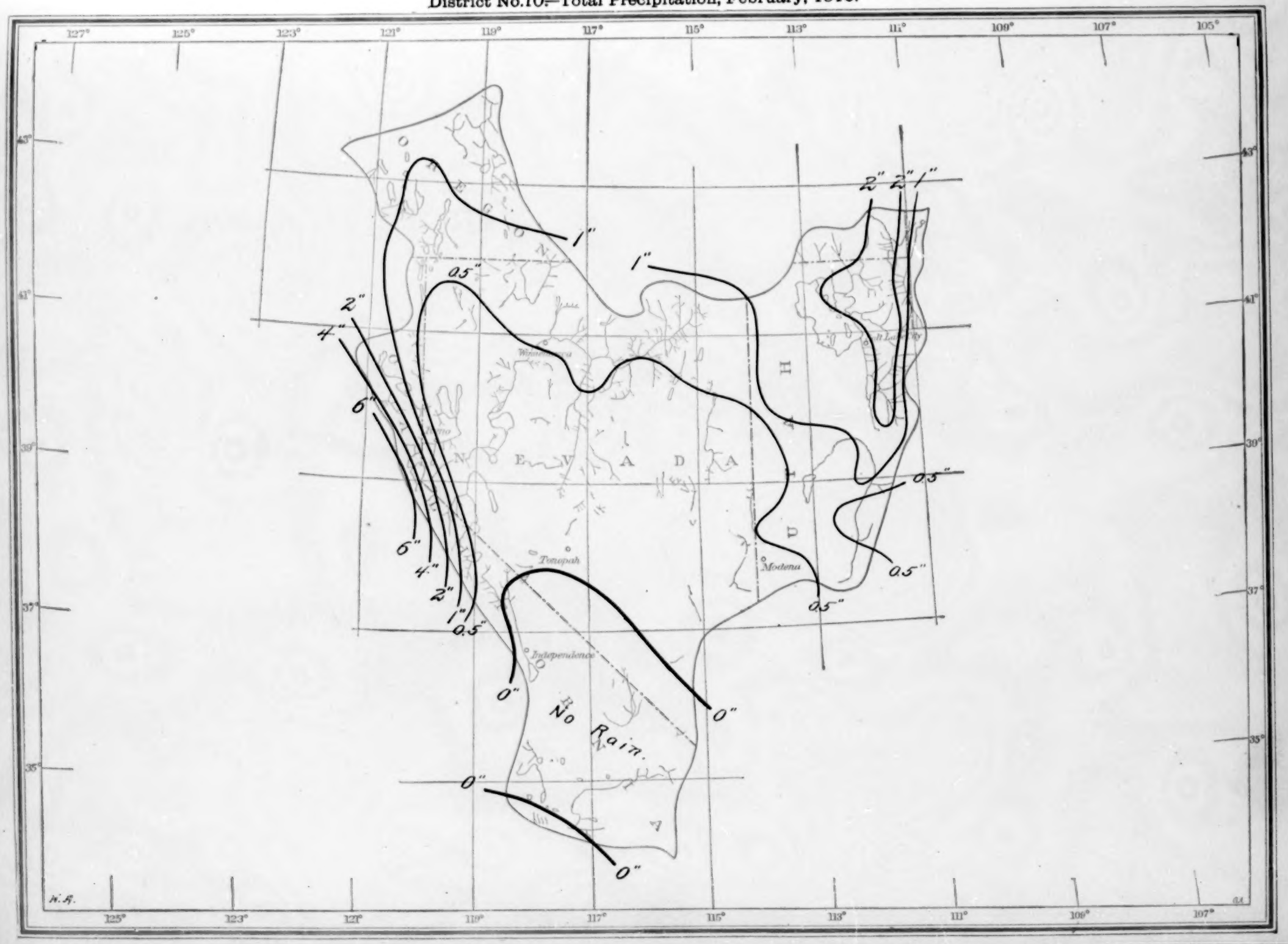
District No. 9.—Total Precipitation, February, 1910.



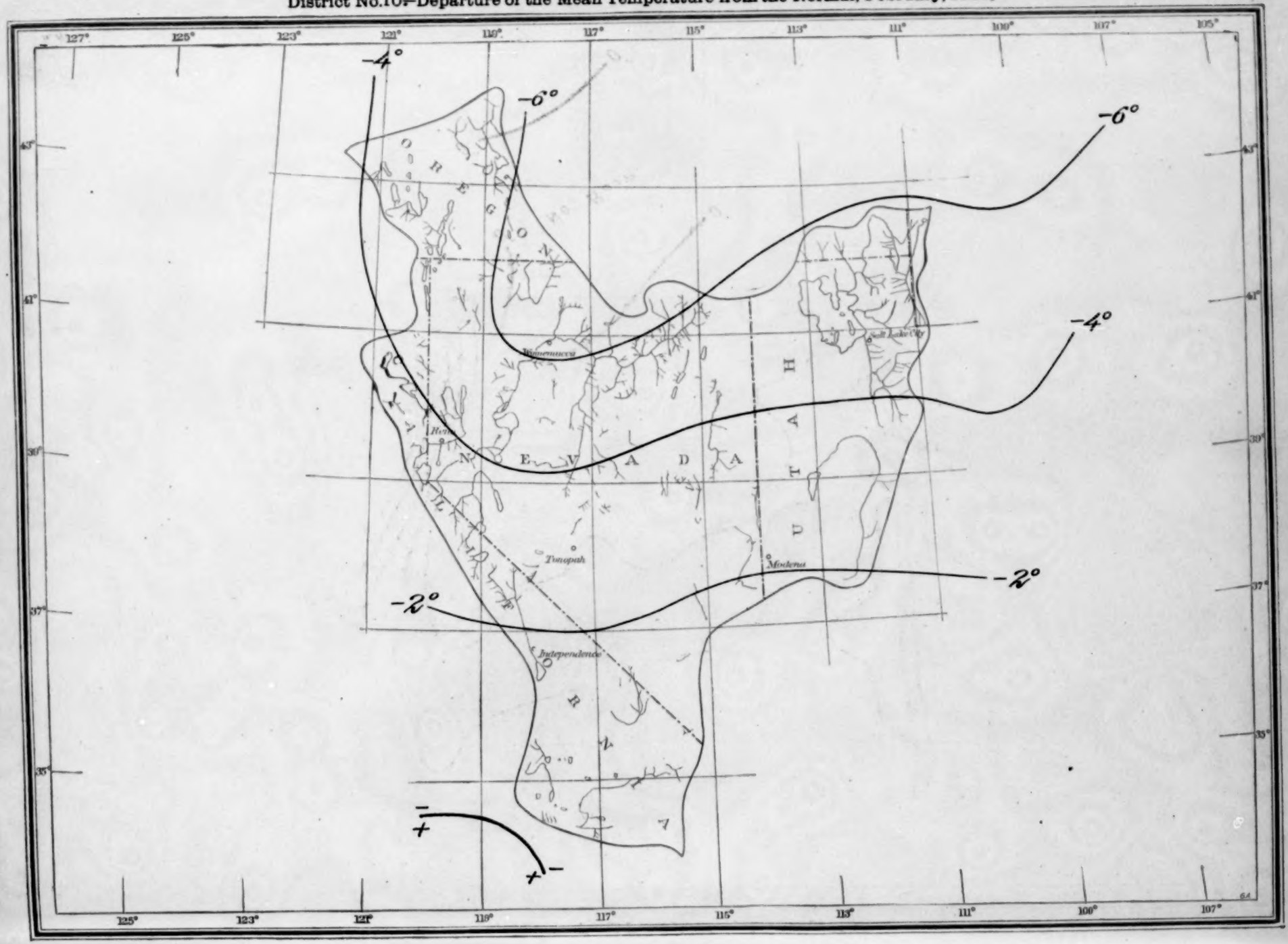
District No.9.—Departure of the Mean Temperature from the Normal, February, 1910.



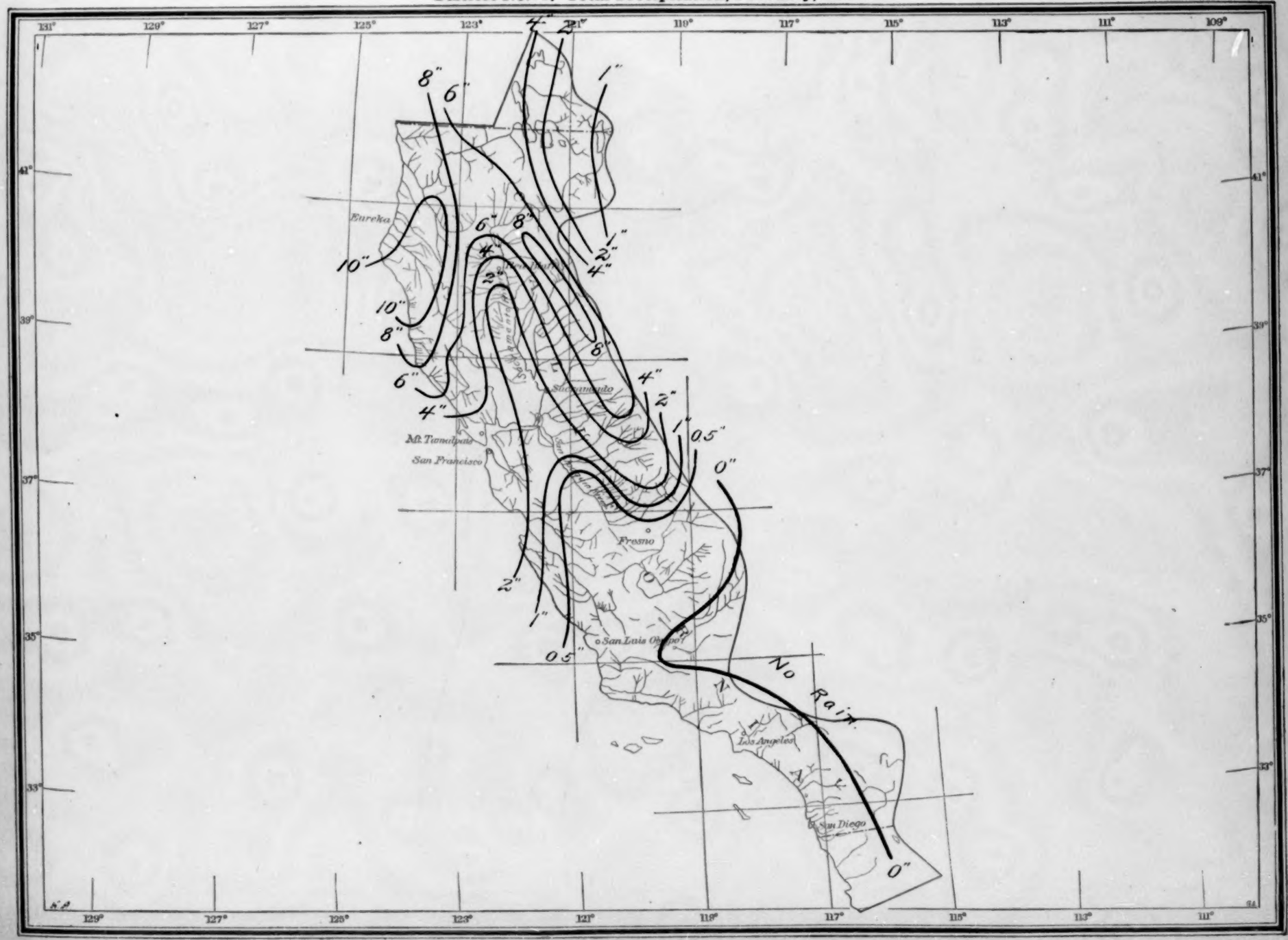
District No.10.—Total Precipitation, February, 1910.



District No.10—Departure of the Mean Temperature from the Normal, February, 1910.

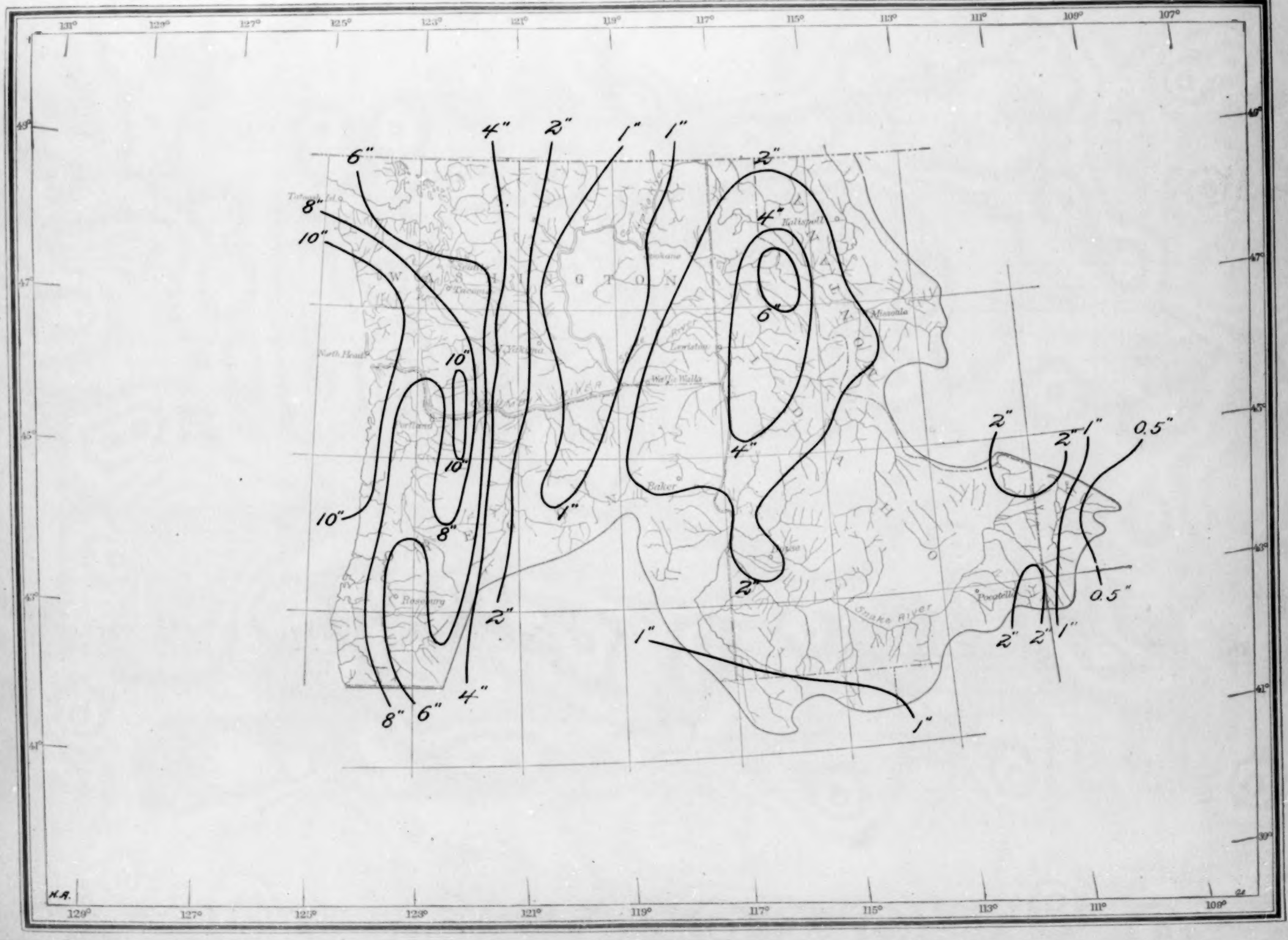


District No. 11.—Total Precipitation, February, 1910.



District No. 11.—Departure of the Mean Temperature from the Normal, February, 1910.

District No. 12.—Total Precipitation, February, 1910.



District No.12.—Departure of the Mean Temperature from the Normal, February, 1910.

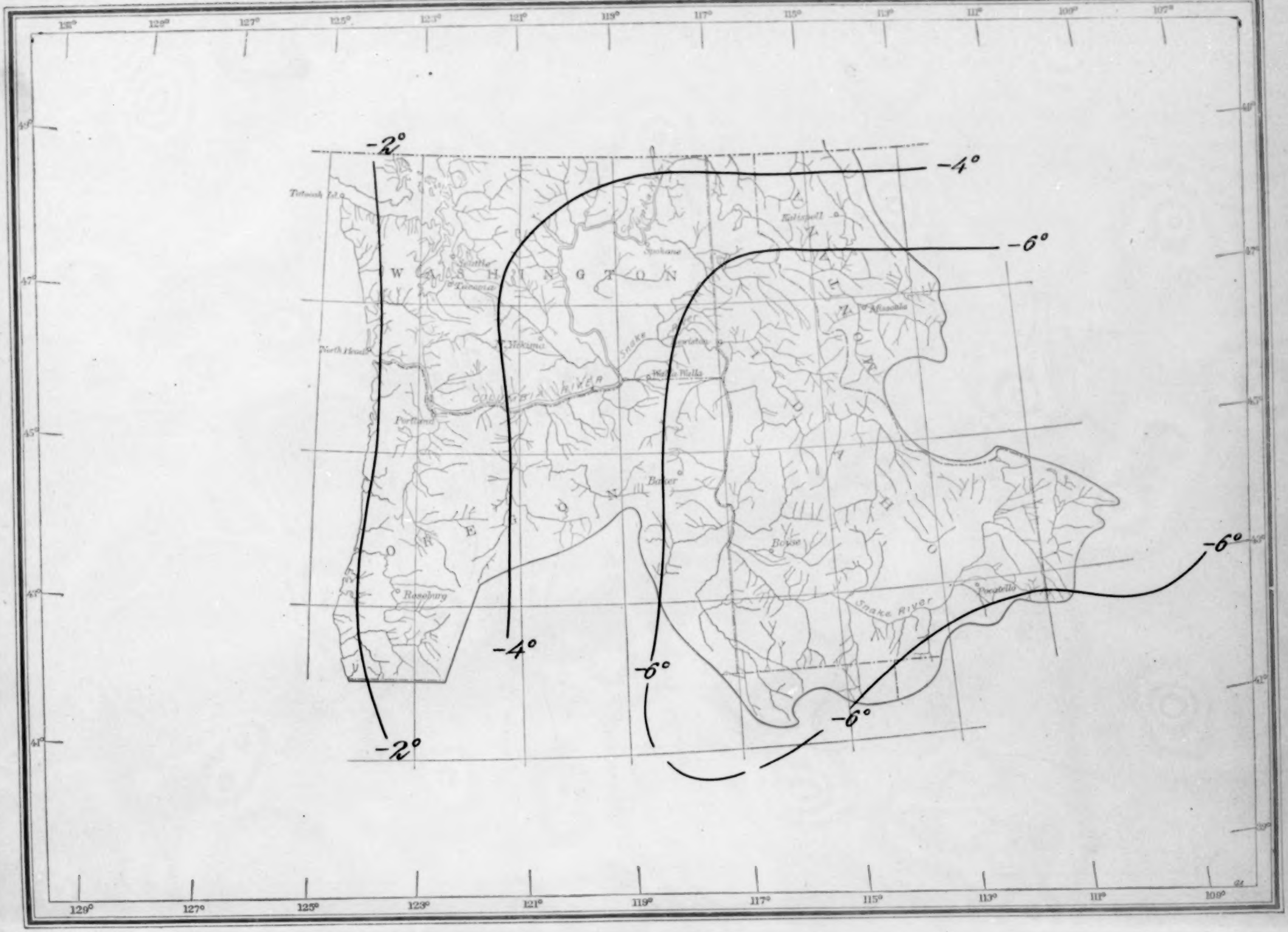


Chart I. Hydrographs of Several Principal Rivers, February, 1910.

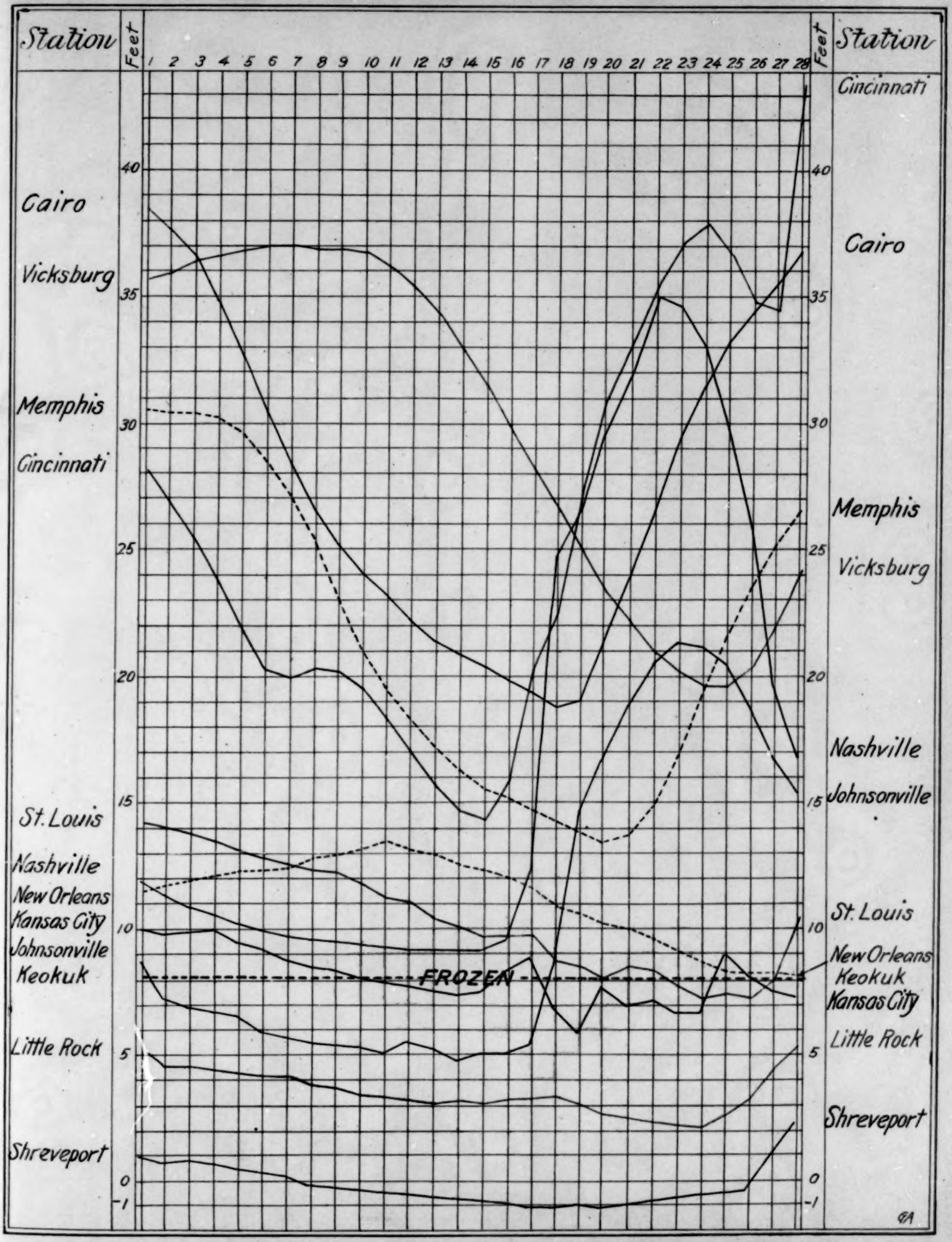


Chart II. Tracks of Centers of High Areas, February, 1910.

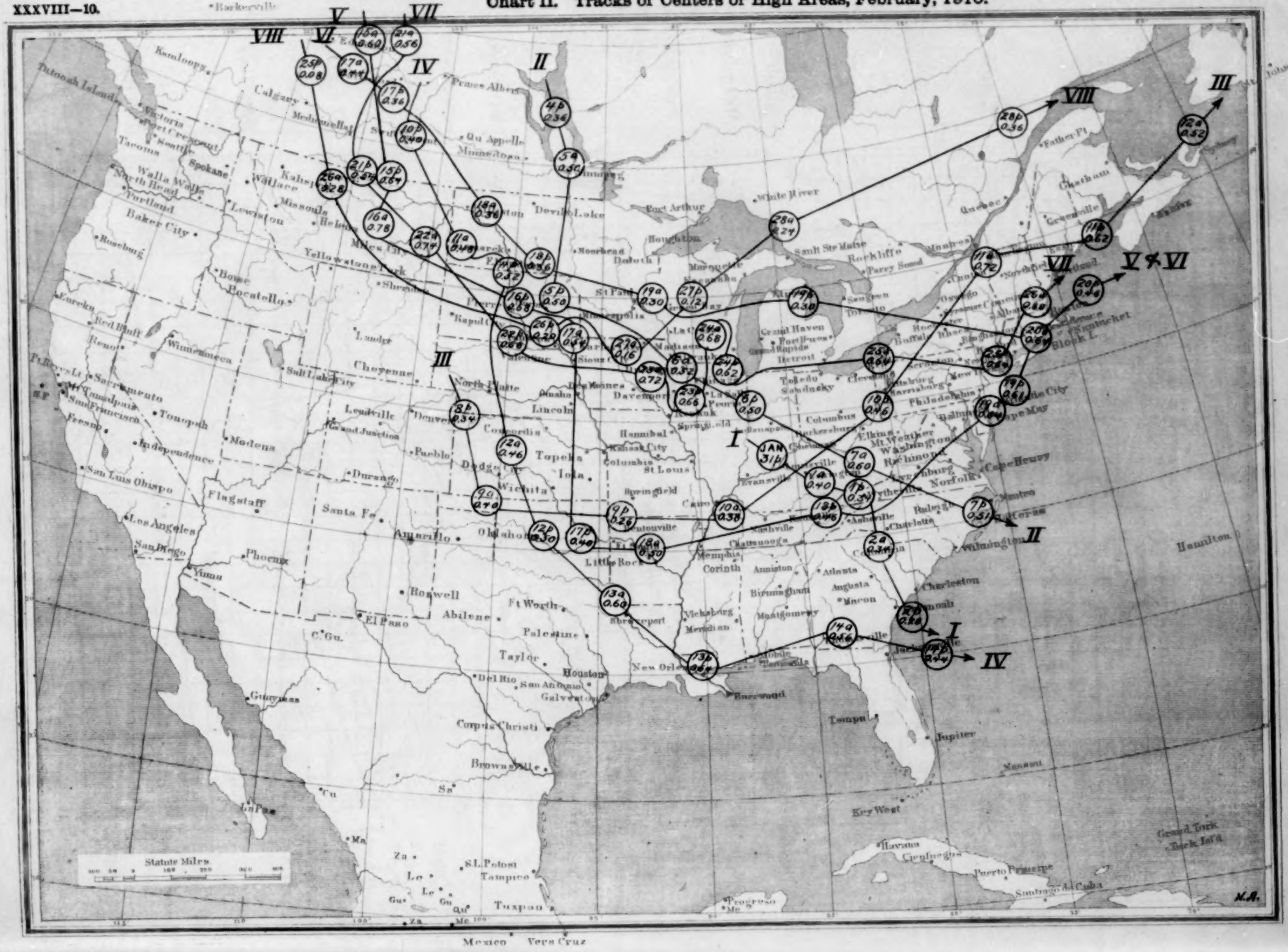


Chart III. Tracks of Centers of Low Areas, February, 1910.

Chart III. Tracks of Centers of Low Areas, February, 1910.

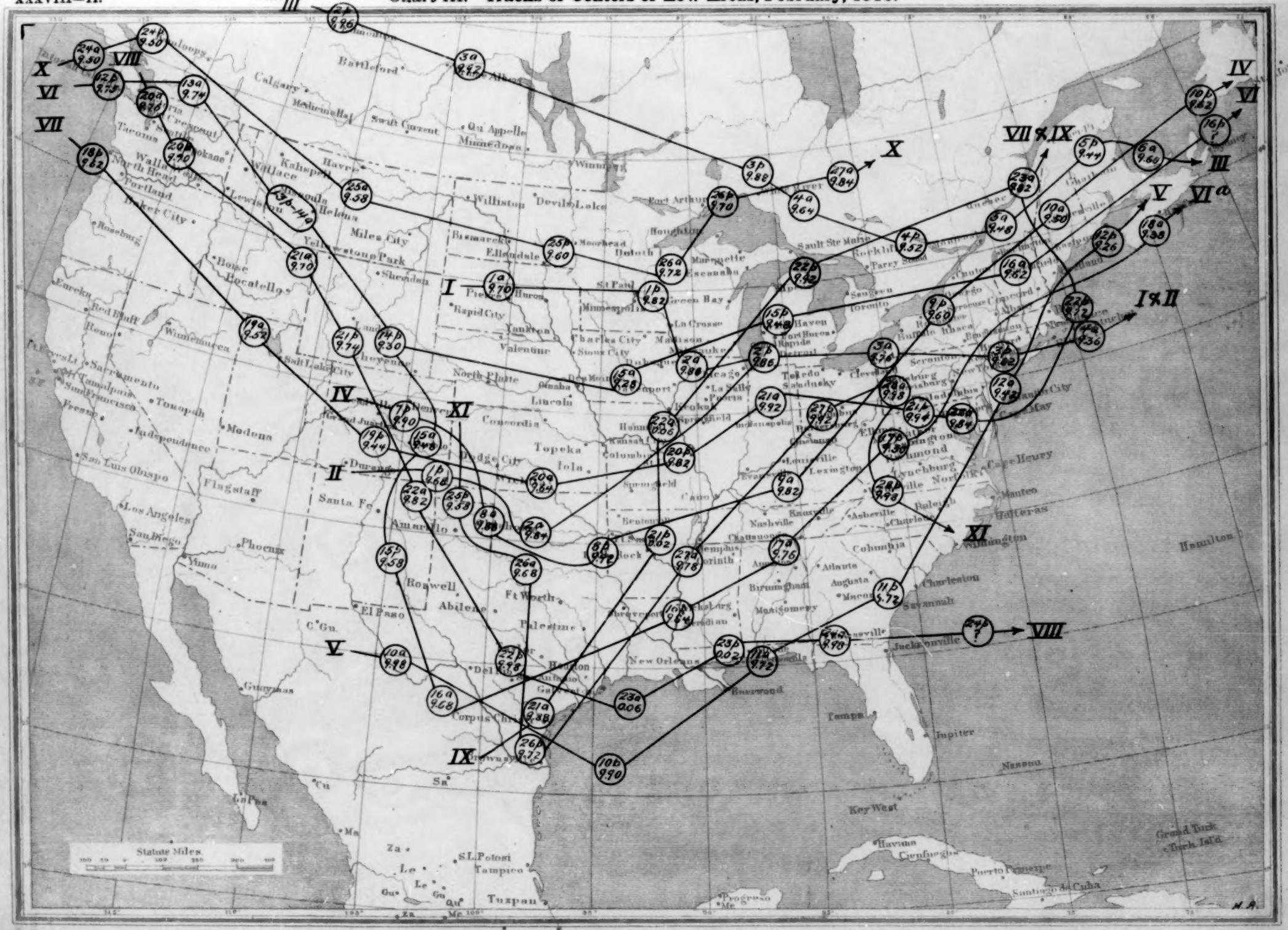


Chart IV. Departure of the Mean Temperature from the Normal, February, 1910.

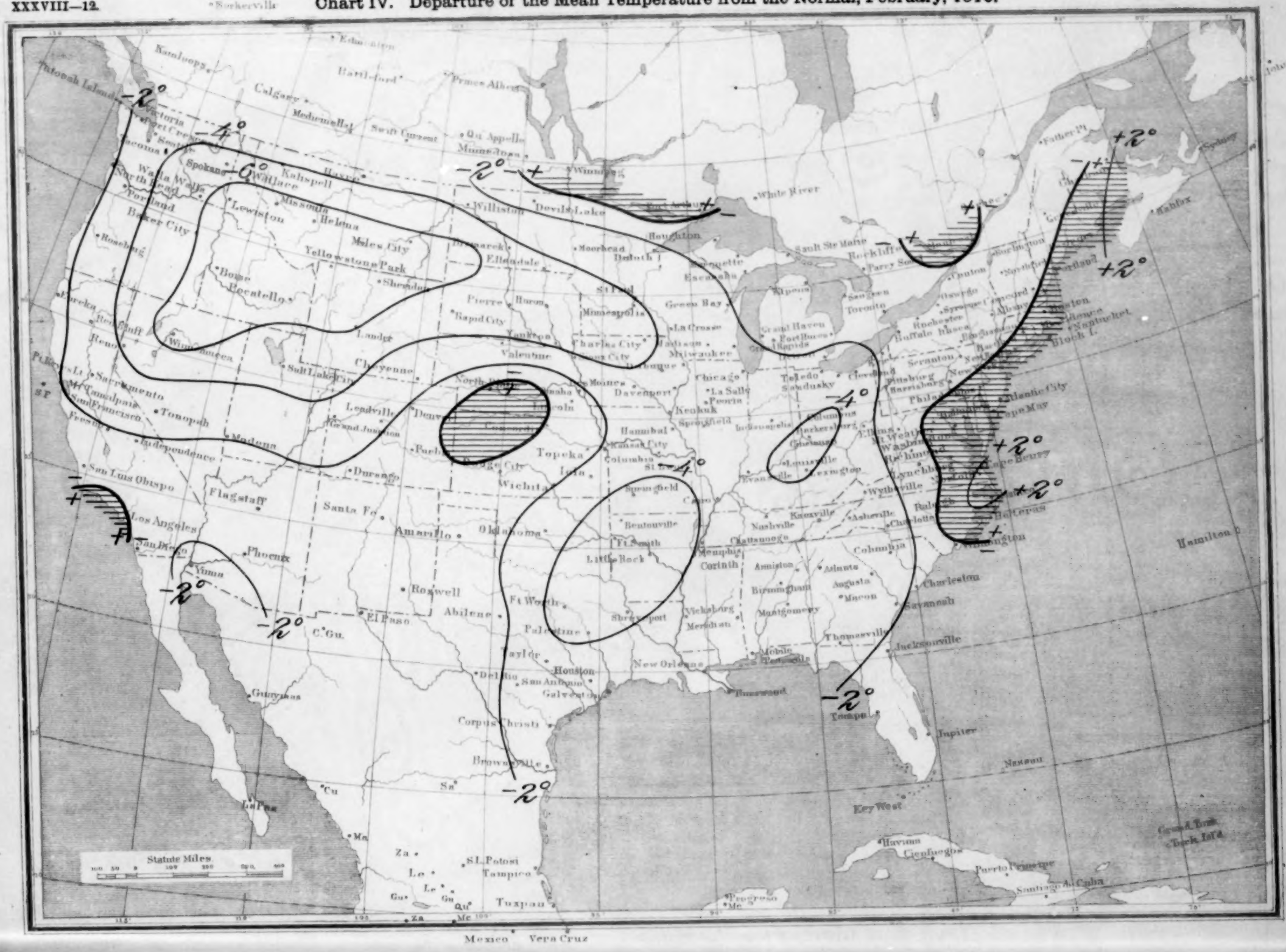


Chart V. Total Precipitation, February, 1910.

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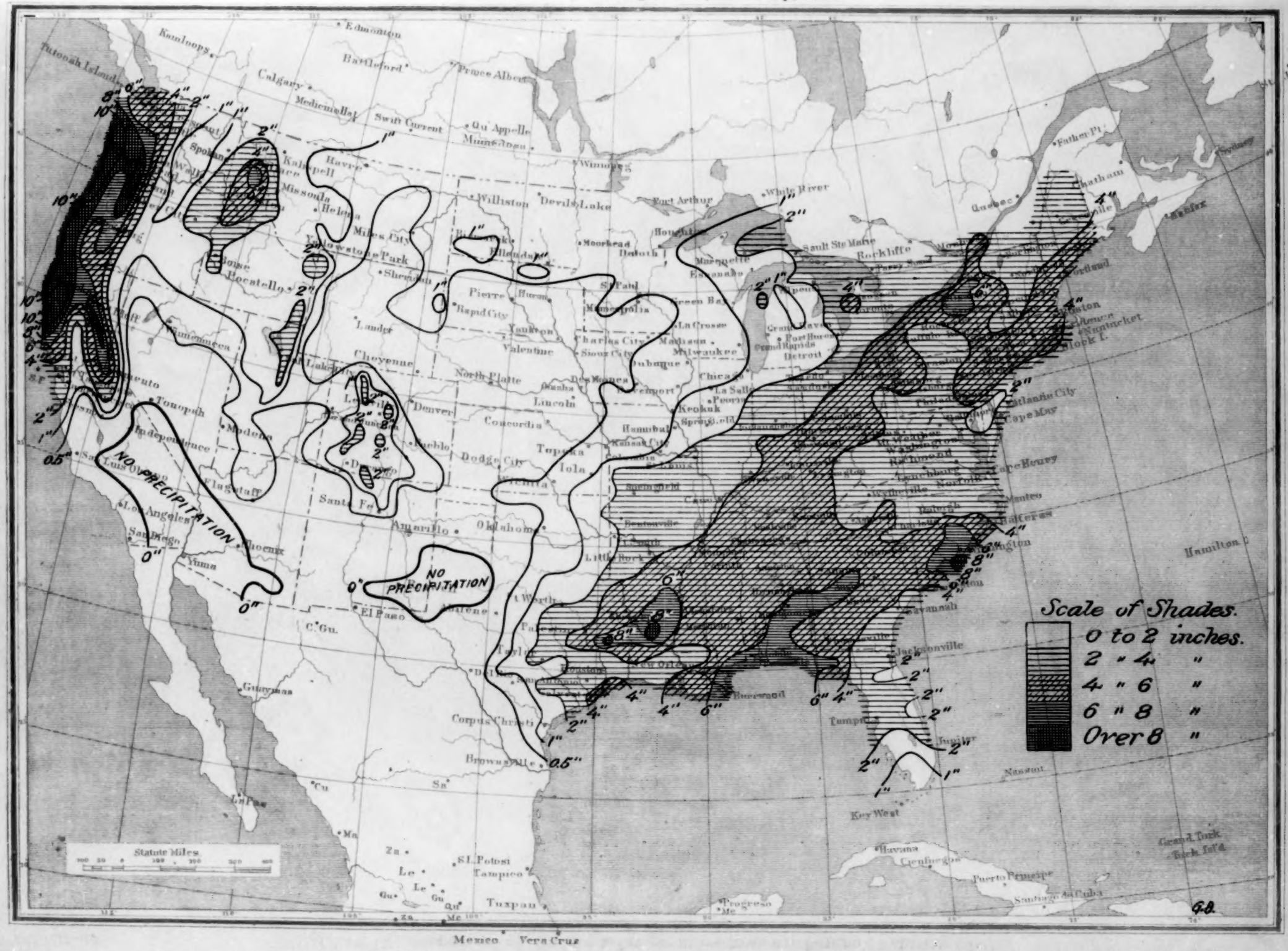

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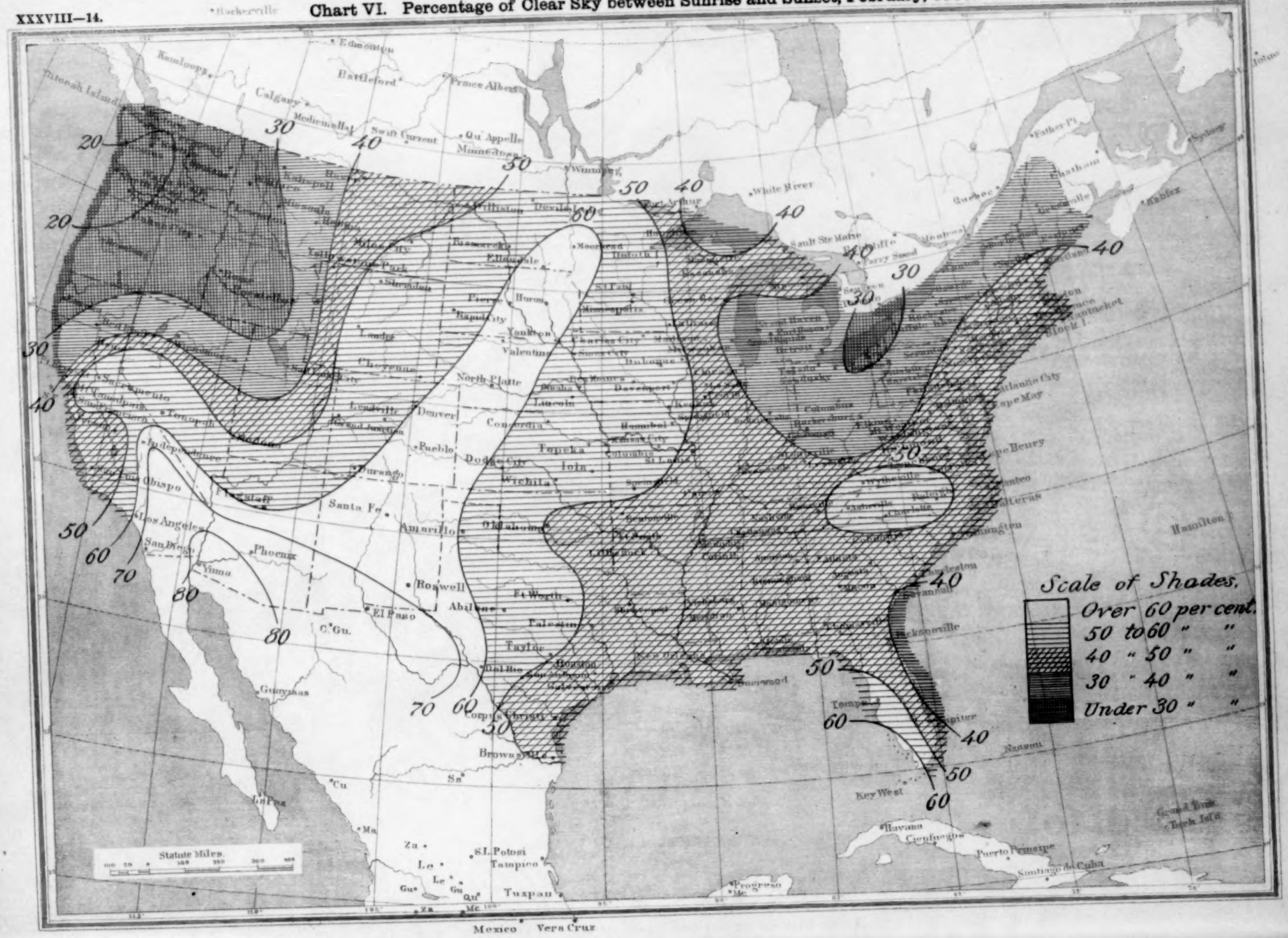
Chart VI. Percentage of Clear Sky between Sunrise and Sunset, February, 1910.



XXXVIII—15.

Chart VII. Isobars and Isotherms at Sea Level; Prevailing Winds, February, 1910.

Chart VII. Isobars and Isotherms at Sea Level; Prevailing Winds, February, 1910.

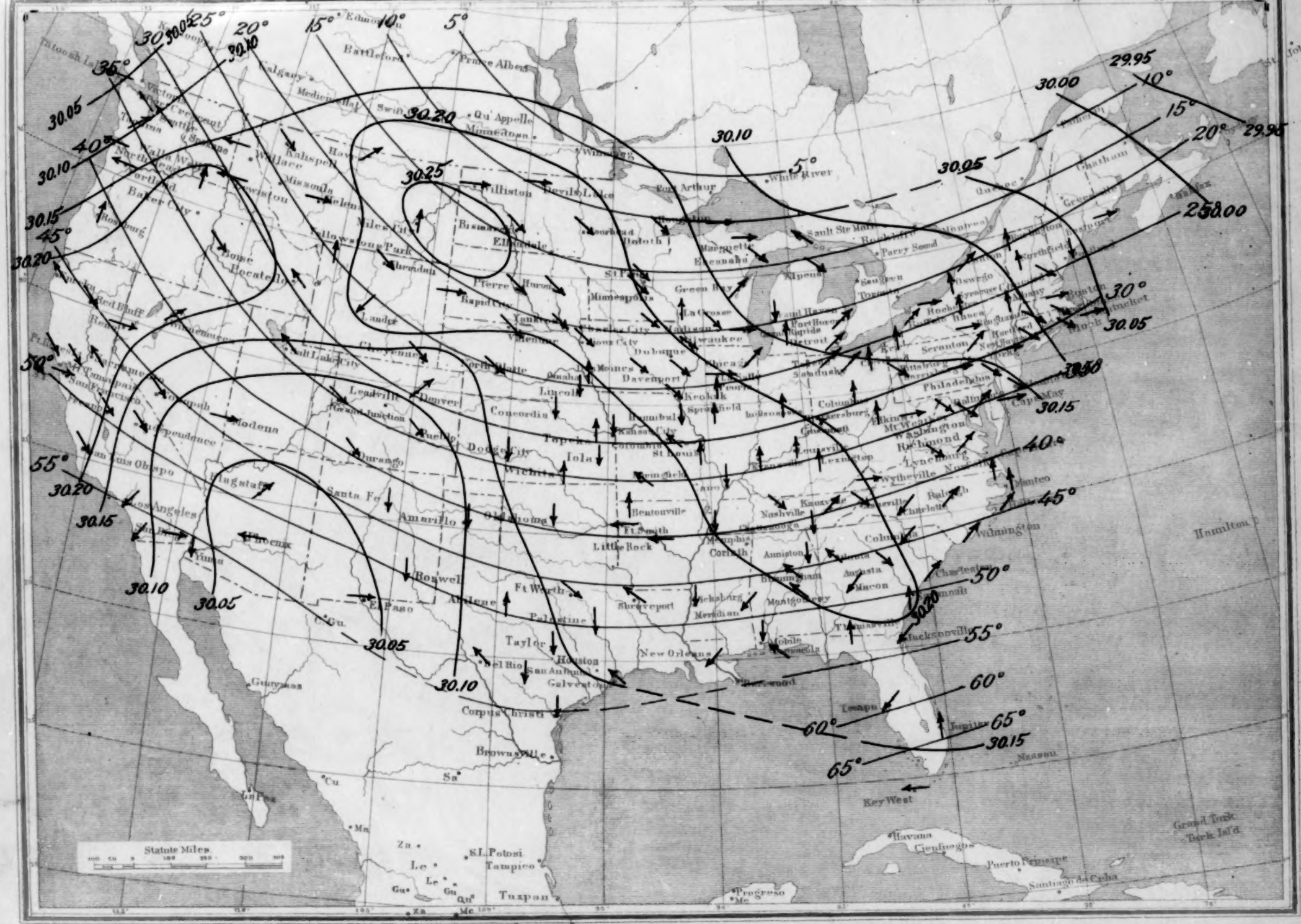
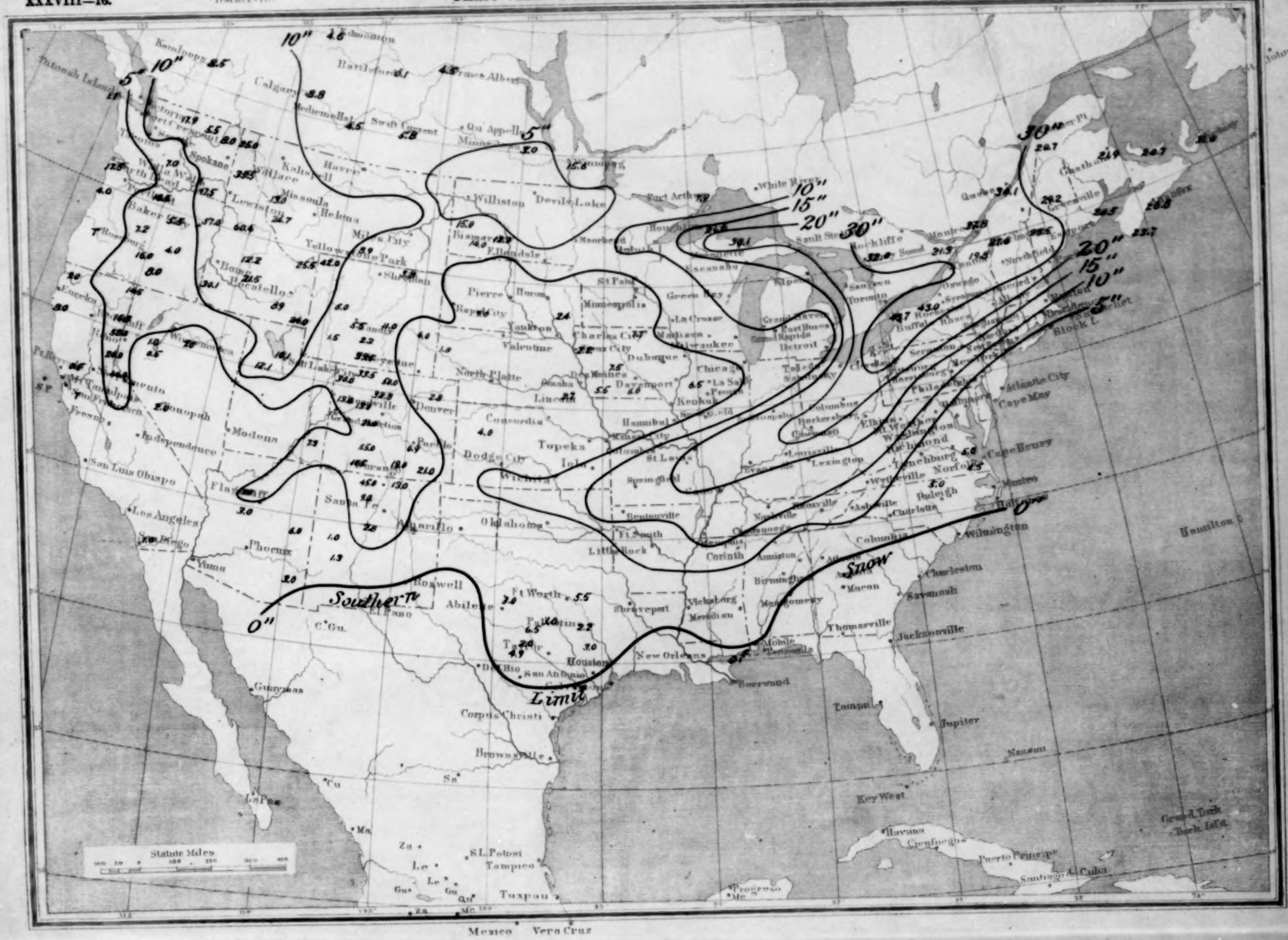



Chart VIII. Total Snowfall for February, 1910.